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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January 1880

Eclipse of Sun January 11th in ♑ 20° 42′

Longitude of the Planets

D	☉	☿	☿	☽	♄	♅	♂	♃	♆	☊
	° ♑′	° ♏′	° ♐′	° ♌′	° ♈′	° ♓′	° ♉′	° ♍′	° ♉′	° ♑′
1	10 30	25 43	18 9	24 5	9 21	9 9	14 38	8 R52	9 R21	15 57
2	11 31	26 52	19 17	6 ♍59	23	9 20	14 49	51	20	54
3	12 33	28 1	20 28	20 10	25	9 31	15 1	50	20	51
4	13 34	29 10	21 41	3 ♎37	28	9 42	15 14	49	20	48
5	14 35	0 ♐19	22 55	17 22	30	9 53	15 28	47	19	44
6	15 36	1 28	24 13	1 ♏26	33	10 4	15 41	46	18	41
7	16 37	2 38	25 30	15 46	9 35	10 15	15 56	8 45	9 18	15 38
8	17 38	3 47	26 49	0 ♐21	38	10 27	16 11	44	17	35
9	18 39	4 57	28 11	15 6	41	10 38	16 26	42	17	32
10	19 41	6 7	29 33	29 55	44	10 50	16 42	41	17	29
11	20 42	7 17	0♑55	14♑40	48	11 1	16 59	39	16	25
12	21 43	8 27	2 19	29 14	51	11 13	17 16	38	16	22
13	22 44	9 38	3 44	13♒31	54	11 25	17 33	36	16	19
14	23 45	10 48	5 9	27 26	58	11 37	17 51	8 35	9 16	15 16
15	24 46	11 58	6 35	10♓57	10 1	11 49	18 9	33	16	13
16	25 48	13 9	8 2	24 3	5	12 1	18 28	32	16	10
17	26 49	14 20	9 30	6 ♈47	8	12 13	18 47	30	16	6
18	27 50	15 30	10 58	19 10	12	12 26	19 7	28	16	3
19	28 51	16 41	12 27	1 ♉18	16	12 38	19 27	26	D16	0
20	29 52	17 52	13 56	13 15	20	12 51	19 48	24	16	14 57
21	0♒53	19 3	15 27	25 6	10 24	13 3	20 8	8 22	9 16	54
22	1 54	20 14	16 58	6 ♊56	28	13 16	20 30	21	16	51
23	2 55	21 26	18 29	18 48	33	13 29	20 51	19	16	47
24	3 56	22 37	20 2	0 ♋47	37	13 41	21 13	17	16	44
25	4 57	23 48	21 34	12 56	41	13 54	21 35	15	16	41
26	5 58	25 0	23 8	25 17	46	14 7	21 58	13	16	38
27	6 59	26 11	24 42	7 ♌51	51	14 20	22 21	10	16	35
28	8 0	27 23	26 17	20 41	55	14 33	22 44	8 8	9 17	14 32
29	9 1	28 34	27 52	3 ♍45	11 0	14 46	23 7	6	18	28
30	10 2	29 46	29 28	17 3	5	14 59	23 31	4	18	25
31	11 2	0♑58	1♒ 5	0 ♎33	11 10	15 13	23 55	8 2	9 18	14 22

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January 1880

Full Moon January 27th in ♌ 6° 59′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	S	S	N	N	S	N	N	N
1	18 42	23 2	16 32	21 20	10 23	1 25	9 12	17 55	8 59	12 54
2	46	22 57	16 49	21 34	5 6	26	7	18 0	9 0	54
3	50	22 52	17 6	21 48	0 s30	27	3	4	0	54
4	53	22 46	17 22	22 2	6 11	29	8 59	8	0	54
5	57	22 39	17 38	22 15	11 43	30	54	13	1	54
6	19 1	22 33	17 53	22 27	16 55	31	50	18	2	54
7	19 5	22 25	18 8	22 39	20 57	1 33	8 46	18 22	9 2	12 54
8	9	22 17	18 23	22 49	23 55	34	41	27	3	54
9	13	22 9	18 37	22 59	25 18	35	36	32	3	54
10	17	22 1	18 51	23 9	24 53	37	32	36	3	53
11	21	21 52	19 4	23 16	22 44	38	27	42	4	53
12	25	21 42	19 17	23 23	19 6	39	23	47	5	53
13	29	21 32	19 30	23 29	14 24	41	19	52	5	53
14	19 33	21 22	19 42	23 33	9 3	1 43	8 14	18 58	9 6	12 53
15	37	21 11	19 54	23 37	3 26	45	9	19 3	7	53
16	41	21 0	20 6	23 40	2 N 9	46	5	8	7	53
17	45	20 48	20 16	23 40	7 29	48	0	14	8	53
18	49	20 36	20 26	23 40	12 23	50	7 55	20	9	53
19	53	20 24	20 36	23 40	16 42	51	50	26	9	53
20	57	20 11	20 45	23 36	20 17	53	45	32	10	53
21	20 0	19 58	20 54	23 32	23 0	1 55	7 40	19 38	9 11	12 53
22	4	19 45	21 3	23 29	24 44	57	35	43	11	54
23	8	19 31	21 10	23 21	25 21	59	30	49	12	54
24	12	19 17	21 17	23 13	24 48	2 1	25	55	13	54
25	16	19 2	21 24	23 6	23 4	2	20	20 1	14	54
26	20	18 48	21 30	22 54	20 13	4	15	7	15	54
27	24	18 32	21 35	22 42	16 23	6	10	13	16	54
28	20 28	18 17	21 40	22 30	11 44	2 8	7 5	20 19	9 16	12 54
29	32	18 1	21 44	22 14	6 29	11	7 0	26	17	54
30	36	17 45	21 47	21 58	0 53	13	6 55	32	18	54
31	20 40	17 28	21 50	21 42	4 s51	2 15	6 50	20 38	9 19	12 55

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February 1880

New Moon February 10th in ♒ 21° 10′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♃	♆	♇
	° ♒′	° ♑′	° ♑′	° ♎′	° ♈′	° ♓′	° ♉′	° ♍′	° ♉′	° ♑′
1	12 3	2 10	2 43	14 14	11 15	15 26	24 20	7 R59	9 19	14 19
2	13 4	3 22	4 21	28 6	20	39	24 45	57	20	15
3	14 5	4 34	6 0	12♍ 7	25	53	25 9	55	20	12
4	15 6	5 46	7 40	26 15	30	16 6	25 35	52	20	9
5	16 7	6 58	9 20	10♐ 29	36	20	26 0	50	21	6
6	17 7	8 10	11 1	24 48	41	33	26 26	48	22	3
7	18 8	9 22	12 43	9 ♑ 7	11 46	16 47	26 52	7 45	9 22	14 0
8	19 9	10 34	14 26	23 24	52	17 1	27 18	43	23	13 56
9	20 10	11 47	16 10	7 ♒ 35	57	14	27 45	40	24	53
10	21 10	12 59	17 55	21 34	12 3	28	28 11	38	24	50
11	22 11	14 12	19 40	5 ♓ 18	9	42	28 38	35	25	47
12	23 12	15 24	21 26	18 43	14	56	29 6	33	26	44
13	24 13	16 36	23 13	1 ♈ 48	20	18 10	29 33	31	26	41
14	25 13	17 49	25 1	14 33	12 26	18 24	0♊ 1	7 28	9 27	13 37
15	26 14	19 2	26 50	26 59	32	38	0 28	25	28	34
16	27 14	20 14	28 39	9 ♉ 9	38	52	0 56	23	29	31
17	28 15	21 27	0♓ 29	21 8	44	19 6	1 25	20	30	28
18	29 15	22 39	2 20	2 ♊ 59	51	20	1 53	18	31	25
19	0♓ 16	23 52	4 12	14 48	57	34	2 22	15	32	22
20	1 16	25 5	6 4	26 41	13 3	48	2 50	12	33	18
21	2 17	26 18	7 57	8 ♋ 42	13 9	20 2	3 19	7 10	9 34	13 15
22	3 17	27 30	9 49	20 56	16	17	3 48	7	35	12
23	4 17	28 43	11 43	3 ♌ 26	22	31	4 18	4	36	9
24	5 18	29 56	13 36	16 15	29	45	4 47	2	37	6
25	6 18	1♒ 9	15 29	29 24	35	21 0	5 17	6 59	39	3
26	7 18	2 22	17 22	12♎ 53	42	14	5 46	57	40	12 59
27	8 18	3 35	19 15	26 37	48	28	6 16	54	41	56
28	9 19	4 48	21 6	10♏ 35	13 55	21 43	6 46	6 51	9 43	12 53
29	10 19	6 1	22 56	24 42	14 2	21 57	7 17	6 49	9 44	12 49

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February 1880

Full Moon February 26th in ♍ 7° 18′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		S	S	S	S	N	S	N	N	N
1	20 44	17 11	21 53	21 23	10 26	2 17	6 45	20 44	9 20	12 55
2	48	16 54	21 54	21 2	15 34	19	39	50	21	56
3	52	16 37	21 55	20 40	19 55	21	34	56	22	56
4	56	16 19	21 56	20 18	23 10	23	29	21 2	23	56
5	21 0	16 1	21 55	19 52	24 59	26	23	8	24	57
6	4	15 43	21 54	19 26	25 11	28	18	14	25	57
7	21 7	15 24	21 54	18 59	23 42	2 30	6 13	21 20	9 25	12 57
8	11	15 5	21 51	18 29	20 42	33	7	26	26	57
9	15	14 46	21 48	17 59	16 29	35	1	32	27	57
10	19	14 27	21 46	17 28	11 24	37	5 56	38	28	57
11	23	14 7	21 41	16 53	5 52	40	50	44	29	58
12	27	13 48	21 36	16 18	0 12	42	45	50	30	58
13	31	13 28	21 32	15 43	5 N20	44	40	56	31	58
14	21 35	13 7	21 25	15 4	10 30	2 47	5 34	22 2	9 32	12 59
15	39	12 47	21 19	14 25	15 7	50	29	8	33	59
16	43	12 26	21 13	13 45	19 1	52	24	14	33	59
17	47	12 5	21 4	13 2	22 4	55	18	20	34	13 0
18	51	11 44	20 56	12 18	24 8	57	12	26	35	0
19	55	11 23	20 48	11 34	25 9	59	7	31	36	0
20	59	11 2	20 38	10 47	25 1	3 2	1	37	37	1
21	22 3	10 40	20 28	10 0	23 42	3 5	4 55	22 42	9 38	13 1
22	7	10 18	20 18	9 12	21 16	7	50	47	39	1
23	11	9 56	20 27	8 22	17 47	10	44	53	40	2
24	15	9 34	20 35	7 32	13 24	13	38	58	41	3
25	18	9 12	19 43	6 41	8 18	15	33	23 3	42	3
26	22	8 50	19 30	5 49	2 42	18	27	9	43	4
27	26	8 27	19 16	4 56	3 S 7	21	21	14	44	4
28	22 30	8 5	19 2	4 3	8 52	3 23	4 16	23 19	9 45	13 4
29	22 34	7 42	18 52	3 28	14 13	3 26	4 10	23 25	9 46	13 5

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March 1880

New Moon March 11th in ♓ 21° 19

Longitude of the Planets

D	☉	♀	☿	♄	♃	♂	♅	♆	♇
	° ♓′	° ♒′	° ♓′	° ♏′	° ♈′	° ♓′	° ♊′	° ♍′	° ♉′	° ♈′
1	11 19	7 14	24 45	8 53	14 9	22 11	7 47	6 R46	9 45	12 4
2	12 19	8 27	26 32	23 5	15	26	8 17	43	47	43
3	13 19	9 40	28 16	7 ♐15	22	40	48	41	49	40
4	14 19	10 53	29 57	21 22	29	55	9 19	38	50	37
5	15 19	12 6	1 ♈34	5 ♑24	36	23 9	49	36	51	34
6	16 19	13 19	3 8	19 20	43	24	10 20	33	52	31
7	17 19	14 32	4 37	3 ♒11	14 50	23 38	10 51	6 30	9 54	12 28
8	18 19	15 45	6 0	16 54	57	53	11 23	28	56	24
9	19 19	16 58	7 18	0 ♓27	15 4	24 7	54	25	58	21
10	20 19	18 12	8 30	13 50	11	22	12 25	23	59	18
11	21 19	19 25	9 35	26 58	18	36	57	20	10 1	14
12	22 19	20 38	10 34	9 ♈52	25	51	13 29	18	3	11
13	23 19	21 51	11 24	22 29	33	25 5	14 0	15	4	8
14	24 18	23 4	12 7	4 ♉51	15 40	25 20	14 32	6 13	10 6	12 5
15	25 18	24 18	12 43	17 0	47	34	15 4	10	8	2
16	26 18	25 31	13 10	28 57	54	49	36	8	9	11 59
17	27 18	26 44	13 28	10♊48	16 2	26 4	16 9	6	11	55
18	28 17	27 57	13 39	22 36	9	18	41	3	13	52
19	29 17	29 11	13 41	4 ♋28	16	33	17 13	1	14	49
20	0 ♈ 16	0 ♓24	13R36	16 28	24	47	46	5 58	16	46
21	1 16	1 37	13 23	28 43	16 31	27 2	18 18	5 56	10 18	11 43
22	2 15	2 51	13 2	11♌17	39	16	51	54	20	40
23	3 15	4 4	12 34	24 13	46	31	19 24	52	22	36
24	4 14	5 17	12 2	7 ♍34	53	45	56	49	24	33
25	5 13	6 31	11 24	21 20	17 1	28 0	20 29	47	25	30
26	6 13	7 44	10 42	5 ♎27	8	14	21 2	45	27	27
27	7 12	8 57	9 56	19 52	16	29	35	43	29	24
28	8 11	10 11	9 7	4 ♏26	17 23	28 43	22 8	5 41	10 31	11 21
29	9 11	11 24	8 18	19 4	31	58	41	39	33	17
30	10 10	12 37	7 27	3 ♐37	38 29	12 23	15	37	35	14
31	11 9	13 51	6 38	18 2	17 46	29 26	23 48	5 35	10 37	11 11

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March 1880

Full Moon March 26th in ♎ 6° 13′

Declination of the Planets

D	S T	☉	♀	♂	♃	♄	♅	♆	♇	♈
		S	S	S	S	N	S	N	N	N
1	22 38	7 19	18 32	2 16	18 50	3 29	4 5	23 28	9 47	13 5
2	42	6 56	18 16.1	23	22 22	32	3 59	33	48	6
3	46	6 33	17 0	0 30	24 31	35	53	38	49	6
4	50	6 10	17 43	0 N22	25 7	37	47	42	50	7
5	54	5 47	17 26	1 11	24 5	40	41	47	51	7
6	58	5 24	17 8	2 1	21 34	43	35	52	52	7
7	23 2	5 0	16 50	2 50	17 48	3 45	3 30	23 56	9 53	13 8
8	6	4 37	16 31	3 34	13 7	48	24	24 0	54	8
9	10	4 14	16 12	4 17	7 51	51	18	4	55	8
10	14	3 50	15 52	5 0	2 18	53	13	8	55	9
11	18	3 26	15 32	5 35	3 N14	56	7	12	56	10
12	22	3 3	15 12	6 9	8 32	59	1	16	57	11
13	25	2 39	14 51	6 43	13 21	4 2	2 56	19	58	11
14	23 29	2 16	14 29	7 7	17 32	4 5	2 50	24 23	9 59	13 12
15	33	1 52	14 7	7 31	20 54	8	44	26	10 0	13
16	37	1 28	13 45	7 54	23 19	11	38	29	1	13
17	41	1 4	13 22	8 5	24 42	14	32	33	2	14
18	45	0 41	12 59	8 16	24 57	17	26	36	3	15
19	49	0 17	12 36	8 27	24 4	19	21	39	3	15
20	53	0 N 7	12 12	8 25	22 4	22	15	42	4	16
21	23 57	0 30	11 48	8 23	19 1	4 25	2 9	24 45	10 5	13 16
22	0 1	0 54	11 24	8 21	15• 2	28	4	47	6	16
23	5	1 18	11 0	8 7	10 16	31	1 59	50	7	17
24	9	1 41	10 35	7 52	4 53	34	53	52	8	18
25	13	2 5	10 10	7 37	0 s53	36	47	54	9	18
26	17	2 28	9 44	7 13	6 44	39	41	56	10	19
27	21	2 52	9 18	6 48	12 21	42	35	58	11	20
28	0 25	3 15	8 52	6 23	17 20	4 45	1 30	24 59	10 11	13 20
29	29	3 39	8 26	5 53	21 18	48	24	25 1	12	21
30	33	4 2	8 0	5 22	23 53	51	18	3	13	22
31	36	4 25	7 33	4 51	24 52	4 54	1 13	25 4	10 13	13 22

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April 1880

New Moon April 9th in ♈ 20° 0′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♈′	° ♓′	° ♈′	° ♑′	° ♈′	° ♓′	° ♊′	° ♍′	° ♌′	° ♑′
1	12 8	15 4	5 R50	2 15	17 54	29 41	24 21	5 R33	10 39	11 8
2	13 7	16 18	5 4	16 15	18 1	29 55	24 55	31	41	4
3	14 6	17 31	4 21	0 ♒ 1	9	0 ♈ 9	25 28	29	43	1
4	15 5	18 44	3 42	13 35	16	0 24	26 2	27	45	10 58
5	16 4	19 58	3 8	26 57	24	0 38	26 35	25	48	55
6	17 3	21 11	2 38	10 ♓ 7	31	0 52	27 9	24	50	52
7	18 2	22 25	2 14	23 7	18 39	1 6	27 43	5 22	10 52	10 49
8	19 1	23 38	1 54	5 ♈ 55	47	1 21	28 17	20	54	45
9	20 0	24 51	1 40	18 31	54	1 35	28 51	19	56	43
10	20 59	26 5	1 31	0 ♉ 55	19 2	1 49	29 24	17	58	39
11	21 58	27 18	1 28	13 7	9	2 3	29 58	15	1	36
12	22 57	28 32	1 ☋30	25 10	17	2 17	0 ♋ 33	14	3	33
13	23 55	29 45	1 37	7 ♊ 3	24	2 31	1 7	12	5	30
14	24 54	0 ♈ 59	1 49	18 52	19 32	2 45	1 41	5 11	11 7	10 26
15	25 53	2 12	2 6	0 ♋ 39	39	2 59	2 15	10	9	23
16	26 51	3 25	2 27	12 30	47	3 13	2 49	8	11	20
17	27 50	4 39	2 53	24 29	55	3 27	3 24	7	14	17
18	28 49	5 52	3 23	6 ♌ 42	20 2	3 41	3 58	6	16	14
19	29 47	7 6	3 58	19 14	10	3 55	4 32	5	18	11
20	0 ♉ 46	8 19	4 36	2 ♍ 10	17	4 8	5 7	3	20	7
21	1 44	9 32	5 18	15 33	20 25	4 22	5 41	5 2	11 22	10 4
22	2 42	10 46	6 4	29 25	32	4 36	6 16	1	24	1
23	3 41	11 59	6 53	13 ♎ 43	39	4 49	6 50	0	27	9 58
24	4 39	13 13	7 46	28 23	47	5 3	7 25	4 59	29	55
25	5 38	14 26	8 41	13 ♏ 18	54	5 16	8 0	58	31	52
26	6 36	15 39	9 40	28 18	21 2	5 30	8 34	57	34	48
27	7 34	16 53	10 42	13 ♐ 15	9	5 43	9 9	57	36	45
28	8 32	18 6	11 46	28 1	21 17	5 57	9 44	4 56	11 38	9 42
29	9 31	19 20	12 53	12 ♑ 30	24	6 10	10 19	55	41	39
30	10 29	20 33	14 3	26 39	21 31	6 23	10 54	4 54	11 43	9 36

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April 1880

Full Moon April 24th in ♏ 4° 29′

Declination of the Planets

D	S T	☉ N	♀ S	☿ N	☽ S	♄ N	♃ S	♂ N	♅ N	♆ N
1	0 40	4 48	7 6	4 20	24 12	4 57	1 7	25 5	10 14	13 23
2	44	5 11	6 39	3 49	22 0	5 0	1	6	15	24
3	48	5 34	6 12	3 18	18 32	3	0 55	7	16	25
4	52	5 57	5 44	2 47	14 9	5	50	8	16	25
5	56	6 20	5 17	2 21	9 7	8	44	9	17	26
6	1 0	6 42	4 49	1 54	3 46	11	38	10	17	27
7	1 4	7 5	4 21	1 27	1 N39	5 14	0 33	25 10	10 17	13 27
8	8	7 27	3 53	1 7	6 56	17	27	10	18	28
9	12	7 50	3 25	0 47	11 50	20	21	9	18	29
10	16	8 12	2 56	0 27	16 11	23	16	9	19	29
11	20	8 34	2 28	0 13	19 47	26	10	9	20	30
12	24	8 56	1 59	0 S 2	22 29	29	5	9	21	31
13	28	9 17	1 30	0 10	24 10	31	0	9	21	31
14	1 32	9 39	1 2	0 15	24 45	5 34	0 N 6	25 8	10 22	13 32
15	36	10 0	0 33	0 20	24 12	37	12	7	22	33
16	40	10 22	0 4	0 24	22 35	40	17	6	22	33
17	43	10 43	0 N30	0 21	19 55	43	23	5	23	34
18	47	11 4	0 56	0 18	16 20	46	28	4	24	35
19	51	11 24	1 22	0 16	11 57	48	33	2	24	35
20	55	11 45	1 51	0 6	6 55	51	39	0	25	36
21	1 59	12 5	2 20	0 N 3	1 25	5 54	0 44	24 58	10 25	13 37
22	2 3	12 25	2 48	0 12	4 S21	56	49	57	25	37
23	7	12 45	3 17	0 28	10 3	59	55	54	26	38
24	11	13 5	3 46	0 43	15 21	6 2	1 0	52	26	39
25	15	13 25	4 14	0 58	19 48	4	5	50	26	39
26	19	13 44	4 43	1 19	22 59	7	10	47	27	40
27	23	14 3	5 12	1 40	24 32	10	15	44	27	41
28	2 27	14 22	5 40	2 0	24 20	6 13	1 20	24 42	10 27	13 41
29	31	14 40	6 8	2 26	22 29	16	26	39	27	42
30	2 35	14 59	6 36	2 51	19 15	6 19	1 31	24 36	10 27	13 43

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May 1880

New Moon May 9th in ♉ 19° 11′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♉′	° ♈′	° ♈′	° ♒′	° ♈′	° ♈′	° ♌′	° ♍′	° ♉′	° ♑′
1	11 27	21 47	15 15	10 28	21 38	6 36	11 29	4 R54	11 45	9 33
2	12 25	23 0	16 29	23 58	46	50	12 4	54	47	30
3	13 23	24 13	17 46	7 ♓ 9	53	7 3	12 39	53	49	27
4	14 21	25 27	19 6	20 6	22 0	16	13 14	53	51	23
5	15 19	26 40	20 27	2 ♈ 48	7	29	13 49	52	54	20
6	16 17	27 54	21 51	15 18	15	42	14 24	52	56	17
7	17 15	29 7	23 17	27 38	22 22	7 54	14 59	4 52	11 58	9 14
8	18 13	0 ♉ 21	24 45	9 ♉ 48	29	8 7	15 34	52	12 1	11
9	19 11	1 34	26 16	21 50	36	20	16 9	51	3	8
10	20 9	2 47	27 48	3 ♊ 44	43	32	16 45	51	5	4
11	21 7	4 1	29 23	15 34	50	45	17 20	51	8	1
12	22 5	5 14	0 ♉ 59	27 21	57	57	17 55	D51	10	8 58
13	23 3	6 28	2 38	9 ♋ 8	23 4	9 10	18 31	51	12	55
14	24 1	7 41	4 19	20 59	23 11	9 22	19 6	4 51	12 14	8 52
15	24 59	8 55	6 2	2 ♌ 59	18	34	19 41	52	16	49
16	25 57	10 8	7 47	15 11	24	47	20 17	52	18	45
17	26 54	11 21	9 34	27 42	31	59	20 52	52	21	42
18	27 52	12 35	11 23	10 ♍ 34	38	10 11	21 28	52	23	39
19	28 50	13 48	13 14	23 53	44	23	22 3	53	25	36
20	29 47	15 2	15 7	7 ♎ 41	51	34	22 39	53	27	33
21	0 ♊ 45	16 15	17 3	21 57	23 58	10 46	23 15	4 54	12 29	8 30
22	1 43	17 29	19 0	6 ♏ 38	24 4	58	23 50	54	31	26
23	2 40	18 42	20 59	21 38	11	11 9	24 26	55	34	23
24	3 38	19 55	23 0	6 ♐ 49	17	21	25 2	55	36	20
25	4 35	21 9	25 4	22 1	24	32	25 37	56	38	17
26	5 33	22 22	27 9	7 ♑ 3	30	44	26 13	57	40	14
27	6 30	23 36	29 15	21 49	36	55	26 49	58	42	11
28	7 28	24 49	1 ♊ 23	6 ♒ 13	24 43	12 6	27 25	4 59	12 44	8 7
29	8 25	26 3	3 32	20 13	49	17	28 0	59	46	4
30	9 23	27 16	5 42	3 ♓ 48	55	28	28 36	5 0	48	1
31	10 20	28 30	7 54	17 0	25 1	12 39	29 12	5 1	12 50	7 58

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May 1880

Full Moon May 24th in ♐ 3° 38′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		N	N	N	S	N	N	N	N	N
1	2 39	15 17	7 4	3 16	14 59	6 21	1 36	24 33	10 27	13 43
2	43	15 35	7 32	3 45	10 5	24	41	30	28	44
3	47	15 52	8 0	4 14	4 49	26	46	26	28	45
4	50	16 10	8 27	4 44	0 N33	28	51	22	28	46
5	54	16 27	8 54	5 17	5 47	31	56	18	28	47
6	58	16 43	9 21	5 50	10 42	34	2 1	14	28	48
7	3 2	17 0	9 48	6 23	15 7	6 36	2 6	24 10	10 28	13 48
8	6	17 16	10 15	6 59	18 51	39	11	6	28	49
9	10	17 32	10 42	7 35	21 46	42	16	1	28	50
10	14	17 48	11 8	8 12	23 42	44	21	23 56	28	50
11	18	18 3	11 37	8 50	24 33	47	26	51	28	51
12	22	18 18	12 6	9 28	24 18	49	31	46	28	52
13	26	18 33	12 35	10 7	22 57	51	35	41	28	52
14	3 30	18 47	12 57	10 47	20 35	6 54	2 40	23 36	10 27	13 53
15	34	19 2	13 19	11 28	17 18	56	45	31	27	54
16	38	19 15	13 40	12 9	13 14	58	49	25	27	54
17	42	19 29	14 4	12 50	8 31	7 1	54	19	27	55
18	46	19 42	14 28	13 31	3 18	3	59	13	27	56
19	50	19 55	14 51	14 13	2 S13	5	3 3	7	27	56
20	54	20 7	15 14	14 55	7 49	8	8	1	27	57
21	3 58	20 19	15 37	15 37	13 12	7 10	3 12	22 55	10 27	13 58
22	4 1	20 31	16 0	16 19	18 0	12	16	48	27	58
23	5	20 43	16 22	17 0	21 45	15	21	42	26	59
24	9	20 54	16 44	17 41	24 2	17	25	35	26	59
25	13	21 4	17 5	18 22	24 32	19	29	28	26	59
26	17	21 15	17 26	19 0	23 14	22	34	21	25	14 0
27	21	21 25	17 46	19 38	20 20	24	38	14	25	1
28	4 25	21 34	18 6	20 17	16 14	7 26	3 42	22 6	10 25	14 1
29	29	21 44	18 25	20 51	11 20	28	46	21 59	24	2
30	33	21 52	18 44	21 25	6 1	30	50	51	24	3
31	4 37	22 1	19 3	22 0	0 36	7 32	3 54	21 43	10 24	14 3

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June 1880

New Moon June 7th in ♊ 17° 2′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♃	♆	♇
	° ♊′	° ♉′	° ♊′	° ♐′	° ♈′	° ♈′	° ♋′	° ♍′	° ♉′	° ♑′
1	11 18	29 43	10 5	29 51	25 7	12 50	29 48	5 2	12 52	7 55
2	12 15	0♊57	12 17	12♈25	13	13 0	0♌24	4	54	51
3	13 13	2 10	14 29	24 44	19	11	1 0	5	56	48
4	14 10	3 24	16 41	6 ♉52	25	21	1 36	6	58	45
5	15 8	4 37	18 52	18 52	31	32	2 12	7	13 0	43
6	16 5	5 51	21 3	0 ♊45	37	42	2 48	9	2	39
7	17 3	7 4	23 13	12 34	25 42	13 52	3 24	5 10	13 4	7 36
8	18 0	8 18	25 21	24 22	48	14 2	4 0	11	6	32
9	18 57	9 31	27 28	6 ♋ 9	53	12	4 37	13	8	29
10	19 55	10 45	29 34	18 0	59	21	5 13	14	10	26
11	20 52	11 58	1♋38	29 56	26 4	31	5 49	16	12	23
12	21 49	13 12	3 40	12♌ 1	9	41	6 25	18	14	20
13	22 47	14 25	5 39	24 17	15	50	7 1	19	16	17
14	23 44	15 39	7 37	6 ♍50	26 20	14 59	7 38	5 21	13 18	7 13
15	24 41	16 52	9 33	19 42	25	15 8	8 14	23	20	10
16	25 38	18 6	11 26	2 ♎56	30	17	8 50	24	21	7
17	26 36	19 19	13 17	16 36	35	26	9 27	26	23	4
18	27 33	20 33	15 6	0 ♏42	40	35	10 3	28	25	1
19	28 30	21 47	16 53	15 12	45	44	10 40	30	26	6 58
20	29 27	23 0	18 37	0 ♐ 3	50	52	11 16	32	28	54
21	0♋24	24 14	20 18	15 8	26 55	16 1	11 52	5 34	13 30	6 51
22	1 22	25 27	21 59	0 ♑20	59	9	12 29	36	31	48
23	2 19	26 41	23 36	15 27	27 4	17	13 5	38	33	45
24	3 16	27 54	25 11	0 ♒22	9	25	13 42	41	35	42
25	4 13	29 8	26 43	14 57	13	33	14 19	43	36	39
26	5 10	0♋22	28 14	29 8	17	40	14 55	45	38	35
27	6 8	1 35	29 41	12♓52	22	48	15 32	47	40	32
28	7 5	2 49	1♌ 7	26 9	27 26	16 55	16 8	5 50	13 41	6 29
29	8 2	4 3	2 30	9 ♈ 3	30	17 2	16 45	52	43	25
30	8 59	5 16	3 50	21 35	27 34	17 10	17 22	5 54	13 45	6 22

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June 1880

Eclipse of Moon June 22nd in ♑ 1° 22′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ N	♄ N	♃ N	♂ N	♅ N	♆ N
1	4 41	22 9	19 20	22 31	4 43	7 34	3 58	21 35	10 23	14 4
2	45	17	19 37	22 57	9 42	36	4 2	27	23	5
3	49	24	19 54	23 23	14 13	38	6	19	23	5
4	53	31	20 11	23 48	18 5	40	10	11	22	5
5	57	38	20 27	24 6	21 10	42	14	3	21	6
6	5 1	44	20 42	24 24	23 19	44	18	20 54	20	6
7	5 5	22 49	20 57	24 41	24 26	7 46	4 21	20 45	10 20	14 6
8	8	55	21 11	24 51	24 26	48	25	36	19	7
9	12	23 0	21 25	25 1	23 20	50	29	27	18	7
10	16	4	21 38	25 10	21 11	51	32	18	18	8
11	20	8	21 50	25 11	18 7	53	36	9	17	9
12	24	12	22 2	25 12	14 15	55	40	0	16	10
13	28	15	22 13	25 14	9 44	56	43	19 50	16	10
14	5 32	23 18	22 23	25 9	4 44	7 58	4 47	19 40	10 15	14 11
15	36	21	22 33	25 3	0 S34	8 0	50	30	14	12
16	40	23	22 43	24 57	6 1	1	53	20	14	12
17	44	25	22 51	24 44	11 20	3	56	10	13	13
18	48	26	22 59	24 32	16 14	5	59	0	12	13
19	52	27	23 7	24 20	20 21	6	5 2	18 50	12	13
20	56	27	23 13	24 2	23 15	8	5	40	11	14
21	6 0	23 27	23 19	23 45	24 32	8 10	5 8	18 29	10 10	14 15
22	4	27	23 25	23 28	24 1	11	11	18	10	15
23	8	26	23 29	23 [illegible]	21 44	12	14	8	9	16
24	12	25	23 33	22 44	17 59	13	17	17 57	8	16
25	16	23	23 36	22 24	13 12	15	20	46	7	16
26	19	21	23 38	22 0	7 50	16	23	35	6	17
27	23	19	23 40	21 35	2 15	17	26	24	5	17
28	6 27	23 16	23 42	21 11	3 N15	8 19	5 28	12	10 4	14 17
29	31	13	23 44	20 45	8 27	20	31	0	3	18
30	6 35	23 9	23 46	20 18	13 9	8 21	5 33	16 49	10 2	14 18

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July 1880

Eclipse of Sun July 7th in ♋ 15° 40′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♃	♂	♅	♆	☊
	° ♋′	° ♋′	° ♌′	° ♉′	° ♈′	° ♈′	° ♌′	° ♍′	° ♉′	° ♑
1	9 56	6 30	5 8	3 51	27 38	17 17	17 58	5 57	13 45	6 19
2	10 54	7 44	6 24	15 53	42	23	18 35	59	46	16
3	11 51	8 58	7 36	27 47	45	30	19 12	6 2	47	13
4	12 48	10 11	8 47	9 ♊36	49	36	19 49	4	49	10
5	13 45	11 25	9 54	21 23	53	43	20 26	7	50	6
6	14 42	12 39	10 58	3 ♋11	56	49	21 3	10	51	3
7	15 40	13 53	12 0	15 3	27 59	17 55	21 39	6 12	13 53	6 0
8	16 37	15 6	12 59	27 1	28 3	18 1	22 16	15	54	5 57
9	17 34	16 20	13 54	9 ♌ 7	6	6	22 53	18	55	54
10	18 31	17 34	14 46	21 23	9	12	23 30	21	57	51
11	19 29	18 48	15 35	3 ♍51	12	17	24 7	24	58	47
12	20 26	20 2	16 20	16 33	15	22	24 44	26	59	44
13	21 23	21 15	17 2	29 30	18	27	25 21	29	14 0	41
14	22 20	22 29	17 40	12♎46	21	18 32	25 58	6 32	14 1	5 38
15	23 18	23 43	18 14	26 21	23	37	26 36	35	2	35
16	24 15	24 57	18 44	10♏16	26	41	27 13	38	4	32
17	25 12	26 11	19 9	24 32	28	46	27 50	41	5	28
18	26 9	27 25	19 31	9 ♐ 5	31	50	28 27	44	6	25
19	27 7	28 38	19 47	23 53	33	54	29 4	47	6	22
20	28 4	29 52	19 59	8 ♑49	35	57	29 42	50	7	19
21	29 1	1♌ 6	20 6	23 47	28 37	19 1	0♍19	6 54	14 8	5 16
22	29 58	2 20	20 9	8 ♒37	39	4	0 56	57	9	13
23	0♌56	3 34	20R 6	23 12	41	8	1 33	7 0	10	9
24	1 53	4 48	19 58	7 ♓27	43	11	2 11	3	11	6
25	2 50	6 2	19 45	21 16	45	14	2 48	7	12	3
26	3 48	7 16	19 28	4 ♈39	46	16	3 26	10	13	0
27	4 45	8 30	19 5	17 36	48	19	4 3	13	14	4 57
28	5 42	9 44	18 38	0 ♉11	28 49	19 21	4 41	7 16	14 14	4 54
29	6 40	10 58	18 6	12 26	50	23	5 18	20	15	50
30	7 37	12 12	17 30	24 28	52	25	5 56	23	15	47
31	8 34	13 26	16 51	6 ♊20	28 53	19 27	6 33	7 27	14 15	4 44

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July 1880

Full Moon July 21st in ♑ 29° 1′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		N	N	N	N	N	N	N	N	N
1	6 39	23 5	23 41	19 51	17 14	8 22	5 35	16 37	10 2	14 18
2	43	0	23 38	19 24	20 31	23	38	25	1	18
3	47	22 56	23 36	18 56	22 54	24	40	13	0	18
4	51	50	23 34	18 28	24 16	26	42	2	9 59	19
5	55	45	23 29	18 0	24 33	27	44	15 49	58	20
6	59	39	23 24	17 32	23 43	28	46	37	57	21
7	7 3	22 32	23 20	17 5	21 49	8 29	5 48	15 25	9 56	14 21
8	7	25	23 13	16 37	18 57	30	51	12	55	21
9	11	18	23 7	16 10	15 14	31	53	0	54	22
10	15	10	23 1	15 43	10 51	32	55	14 48	53	22
11	19	2	22 53	15 17	5 57	33	56	35	52	22
12	23	21 54	22 44	14 51	0 44	34	57	22	51	22
13	26	45	22 35	14 25	4 S36	34	59	9	50	22
14	7 30	21 36	22 24	14 2	9 52	8 35	6 1	13 56	9 48	14 23
15	34	27	22 13	13 39	14 47	36	3	43	47	23
16	38	17	22 3	13 16	19 4	36	4	30	46	23
17	42	6	21 51	12 56	22 20	37	5	16	44	24
18	46	20 56	21 39	12 36	24 13	38	6	3	43	24
19	50	45	21 26	12 16	24 27	38	8	12 50	42	24
20	54	34	21 11	12 1	22 56	39	9	36	41	25
21	7 58	20 22	20 56	11 46	19 49	8 39	6 10	12 23	9 40	14 25
22	8 2	10	20 42	11 32	15 25	39	11	10	39	25
23	6	19 58	20 26	11 22	10 10	40	12	11 56	38	25
24	10	45	20 10	11 13	4 31	40	13	42	37	25
25	14	32	19 54	11 4	1 N11	40	14	11 28	36	25
26	18	19	19 36	11 1	6 39	41	15	14	34	26
27	22	5	19 18	10 59	11 39	41	16	0	33	26
28	8 26	18 51	19 0	10 57	16 1	8 41	6 16	10 46	9 32	14 26
29	30	37	18 40	11 2	19 36	42	17	32	30	26
30	34	23	18 21	11 7	22 16	42	17	18	29	26
31	8 37	18 8	18 2	11 11	23 57	8 42	6 17	10 4	9 28	14 26

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August 1880

New Moon August 6th in ♌ 14° 14′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♃	♆	♇
	° ♌′	° ♍′	° ♌′	° ♊′	° ♈′	° ♈′	° ♏′	° ♑′	° ♉′	° ♒′
1	9 32	14 40	16R10	18 8	28 54	19 28	7 11	7 30	14 16	4 41
2	10 29	15 54	15 25	29 55	55	29	7 48	33	16	37
3	11 27	17 8	14 39	11♋47	55	30	8 26	37	16	34
4	12 24	18 22	13 52	23 46	56	31	9 4	40	17	31
5	13 22	19 36	13 5	5 ♌54	57	32	9 42	44	17	28
6	14 19	20 50	12 19	18 14	57	33	10 19	47	17	25
7	15 17	22 4	11 35	0 ♍47	28 57	19 33	10 57	7 51	14 18	4 22
8	16 14	23 18	10 53	13 33	58	33	11 35	55	18	18
9	17 12	24 33	10 15	26 32	58	R33	12 13	58	18	15
10	18 10	25 47	9 41	9 ♎44	58	33	12 51	8 2	19	12
11	19 7	27 1	9 12	23 10	R58	32	13 29	5	19	9
12	20 5	28 15	8 49	6 ♍48	57	32	14 7	9	19	6
13	21 3	29 29	8 32	20 40	57	31	14 45	13	20	3
14	22 0	0♍43	8 22	4 ♐44	28 57	19 30	15 23	8 16	14 20	3 59
15	22 58	1 57	8 18	19 1	56	28	16 1	20	20	56
16	23 56	3 11	8 D22	3 ♑27	56	27	16 39	24	20	53
17	24 53	4 26	8 34	18 0	55	25	17 17	27	20	50
18	25 51	5 40	8 53	2 ♒36	54	23	17 55	31	20	47
19	26 49	6 54	9 19	17 8	53	21	18 33	35	R20	44
20	27 47	8 8	9 53	1 ♓30	52	19	19 11	38	19	40
21	28 44	9 22	10 35	15 36	28 51	19 17	19 49	8 42	14 19	3 37
22	29 42	10 36	11 24	29 21	50	14	20 28	46	19	34
23	0♍40	11 51	12 20	12 ♈43	49	11	21 6	50	19	31
24	1 38	13 5	13 23	25 41	47	8	21 44	53	19	28
25	2 36	14 19	14 33	8 ♉17	46	5	22 23	57	19	25
26	3 34	15 33	15 48	20 34	44	1	23 1	9 1	18	21
27	4 32	16 47	17 10	2 ♊36	42	18 58	23 40	5	18	18
28	5 30	18 1	18 36	14 28	28 41	18 54	24 18	9 8	14 18	3 15
29	6 28	19 16	20 8	26 16	39	50	24 57	12	17	11
30	7 26	20 30	21 44	8 ♋ 5	37	46	25 35	16	17	8
31	8 24	21 44	23 24	20 0	28 35	18 42	26 14	9 20	14 16	3 5

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August 1880

Full Moon August 20th in ♒ 27° 47′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ N	♄ N	♃ N	♂ N	♅ N	♆ N
1	8 41	17 53	17 41	11 20	24 32	8 42	6 17	9 49	9 27	14 26
2	45	17 37	17 20	34	24 1	42	17	34	26	26
3	49	17 21	16 59	47	22 25	42	17	20	25	26
4	53	17 5	16 37	12 0	19 49	42	18	6	23	26
5	57	16 49	16 14	19	16 18	42	18	8 52	22	26
6	9 1	16 33	15 51	37	12 3	42	18	37	21	26
7	9 5	16 16	15 28	12 55	7 15	8 42	6 18	8 22	9 19	14 26
8	9	15 59	15 4	13 16	2 4	42	18	7	18	26
9	13	15 41	14 40	36	3 s18	42	18	7 52	17	26
10	17	15 24	14 16	56	8 35	41	17	37	15	26
11	21	15 6	13 51	14 16	13 34	41	16	22	14	26
12	25	14 48	13 26	36	17 57	41	15	7	13	26
13	29	14 29	13 0	56	21 26	40	15	6 52	11	26
14	9 33	14 11	12 34	15 14	23 42	8 40	6 14	6 37	9 10	14 26
15	37	13 52	12 8	31	24 27	40	13	22	9	26
16	41	13 33	11 41	48	23 35	39	13	6	7	26
17	44	13 14	11 14	16 0	21 8	39	12	5 51	6	26
18	48	12 54	10 47	12	17 18	38	11	36	5	26
19	52	12 35	10 19	24	12 27	37	10	20	3	26
20	56	12 15	9 52	30	6 58	37	9	7	1	26
21	10 0	11 55	9 24	16 35	1 15	8 36	6 8	4 53	8 59	14 26
22	4	11 35	8 56	40	4 N24	35	7	39	58	26
23	8	11 14	8 27	37	9 41	34	6	22	57	26
24	12	10 54	7 58	34	14 22	33	5	5	56	26
25	16	10 33	7 29	31	18 18	33	3	3 48	54	25
26	20	10 12	7 0	19	21 20	32	1	33	53	25
27	24	9 51	6 30	7	23 21	31	5 59	17	52	25
28	10 28	9 30	6 0	15 54	24 18	8 31	5 58	3 1	8 50	14 25
29	32	9 9	5 31	33	24 8	30	56	2 45	48	25
30	36	8 47	5 1	12	22 54	29	54	29	46	25
31	10 40	8 25	4 31	14 51	20 37	8 28	5 53	2 13	8 45	14 25

6840704

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September 1880

New Moon September 4th in ♍ 12° 17′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇
	° ♍′	° ♍′	° ♎′	° ♎′	° ♈′	° ♈′	° ♍′	° ♍′	° ♑′
1	9 22	22 58	25 7	2 6	28R32	18R37	26 52	9 23	14 16	3 2
2	10 20	24 13	26 53	14 25	30	32	27 31	27	16	2 59
3	11 18	25 27	28 42	26 59	28	28	28 10	31	15	56
4	12 17	26 41	0♍32	9 ♍50	25	23	28 48	35	R14	52
5	13 15	27 55	2 24	22 58	23	17	29 27	38	14	49
6	14 13	29 9	4 17	6 ♎21	20	12	0♎ 6	42	13	46
7	15 12	0♎24	6 11	19 56	28 17	18 7	0 45	9 46	14 12	2 43
8	16 10	1 38	8 6	3 ♏41	14	1	1 24	50	12	40
9	17 8	2 52	10 1	17 33	12	17 55	2 3	54	11	37
10	18 7	4 6	11 55	1 ♐32	9	49	2 42	57	10	33
11	19 5	5 21	13 50	15 35	5	43	3 21	10 1	10	30
12	20 3	6 35	15 44	29 42	2	37	4 0	5	9	27
13	21 2	7 49	17 37	13♑52	27 59	30	4 39	8	8	24
14	22 0	9 3	19 30	28 3	27 56	17 24	5 18	10 12	14 7	2 21
15	22 59	10 17	21 22	12♒13	52	17	5 57	16	6	18
16	23 57	11 32	23 13	26 20	49	10	6 36	20	5	14
17	24 56	12 46	25 4	10♓18	45	4	7 15	23	4	11
18	25 55	14 0	26 53	24 5	42	16 57	7 54	27	3	8
19	26 53	15 14	28 42	7 ♈36	38	50	8 34	31	2	5
20	27 52	16 28	0♎30	20 48	34	42	9 13	34	1	2
21	28 51	17 42	2 16	3 ♉40	27 30	16 35	9 52	10 38	14 0	1 59
22	29 49	18 57	4 2	16 12	26	16 28	10 32	42	13 59	55
23	0♎48	20 11	5 47	28 27	23	20	11 11	45	57	52
24	1 47	21 25	7 31	10♊28	19	13	11 51	49	56	49
25	2 46	22 39	9 14	22 20	14	5	12 30	52	55	46
26	3 45	23 53	10 56	4 ♋ 8	10	15 57	13 10	56	54	43
27	4 44	25 7	12 37	15 58	6	50	13 49	59	53	40
28	5 43	26 22	14 17	27 55	27 2	15 42	14 29	11 3	13 52	1 36
29	6 42	27 36	15 56	10♌ 3	26 58	34	15 9	6	51	33
30	7 41	28 50	17 35	22 28	26 53	15 26	15 48	11 10	13 50	1 30

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September 1880

Full Moon September 18th in ♓ 25° 55′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ N	♄ N	♅ N	♂ N	♃ N	♆ N
1	10 44	8 4	4 0	14 24	17 24	8 27	5 51	1 58	8 44	14 24
2	48	7 42	3 30	13 52	13 24	26	49	42	43	24
3	51	7 21	3 0	13 20	8 44	25	47	26	41	24
4	55	6 57	2 29	12 48	3 37	24	45	10	39	24
5	59	6 35	1 59	12 10	1 s45	23	42	0 54	38	24
6	11 3	6 13	1 28	11 32	7 8	22	40	38	37	24
7	11 7	5 50	0 57	10 54	12 16	8 20	5 38	0 22	8 35	14 23
8	11	5 28	0 26	10 12	16 51	19	35	6	34	23
9	15	5 5	0 s 4	9 29	20 33	18	33	s 9	33	23
10	19	4 42	0 35	8 46	23 5	17	31	25	31	22
11	23	4 19	1 6	8 1	24 12	16	28	41	30	22
12	27	3 56	1 37	7 16	23 46	15	25	57	29	22
13	31	3 33	2 8	6 30	21 48	13	23	1 13	27	21
14	11 35	3 10	2 39	5 43	18 29	8 12	5 20	1 29	8 25	14 21
15	39	2 47	3 10	4 56	14 5	11	17	45	23	21
16	43	2 24	3 40	4 9	8 57	9	15	2 1	22	20
17	47	2 1	4 11	3 22	3 25	7	12	17	21	20
18	51	1 37	4 42	2 35	2 N12	5	9	33	20	20
19	55	1 14	5 12	1 47	7 36	4	7	49	18	19
20	59	0 51	5 43	0 59	12 31	3	4	3 5	17	19
21	12 2	0 27	6 13	0 12	16 46	8 2	5 1	21	8 16	14 19
22	6	0 4	6 43	0 s35	20 9	0	4 58	3 37	14	18
23	10	0 s19	7 13	1 22	22 32	7 59	55	53	13	18
24	14	0 43	7 43	2 9	23 51	57	52	4 9	12	18
25	18	1 6	8 12	2 55	24 3	55	50	4 24	11	17
26	22	1 30	8 42	3 41	23 11	53	46	40	9	17
27	26	1 53	9 11	4 26	21 16	51	43	56	7	17
28	12 30	2 16	9 40	5 11	18 24	7 50	4 40	5 12	8 6	14 16
29	34	2 40	10 10	5 59	14 43	48	36	28	4	16
30	12 38	3 3	10 39	6 46	10 20	7 46	4 33	5 44	8 2	14 16

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

New Moon October 4th in ♎ 11° 37′

October 1880

Longitude of the Planets

D	☉	☿	♀	♂	♃	♅	♄	♆	♇
	° ♎′	° ♏′	° ♎′	° ♐′	° ♈′	° ♈′	° ♎′	° ♐′	° ♑′
1	8 40	0 4	19 12	5 13	26R49	15R18	16 28	11 13	13R48	1 27
2	9 39	1 18	20 49	18 19	44	10	17 8	17	46	23
3	10 38	2 32	22 25	1 ♎46	40	2	17 48	20	45	20
4	11 37	3 46	24 0	15 32	35	14 54	18 28	24	44	17
5	12 37	5 1	25 35	29 33	31	46	19 8	27	42	14
6	13 36	6 15	27 9	13♏44	26	38	19 49	30	41	11
7	14 35	7 29	28 41	28 0	26 22	14 30	20 28	11 34	13 40	1 8
8	15 34	8 43	0♏14	12 ♐18	17	21	21 8	37	39	4
9	16 34	9 57	1 45	26 32	12	13	21 48	40	37	1
10	17 33	11 11	3 16	10♑42	8	5	22 28	43	35	0 58
11	18 33	12 25	4 46	24 46	3	13 57	23 8	47	33	55
12	19 32	13 39	6 15	8 ♒43	25 58	49	23 48	50	32	52
13	20 32	14 53	7 43	22 33	53	41	24 29	53	31	49
14	21 31	16 7	9 11	6 ♓16	25 49	13 33	25 9	11 56	13 30	0 46
15	22 31	17 21	10 38	19 49	44	25	25 49	59	28	43
16	23 30	18 36	12 4	3 ♈10	39	17	26 30	12 2	26	39
17	24 30	19 50	13 30	16 19	34	10	27 10	5	24	36
18	25 29	21 4	14 55	29 13	30	2	27 50	8	23	33
19	26 29	22 18	16 18	11♉52	25	12 54	28 31	11	22	30
20	27 29	23 32	17 41	24 16	20	47	29 12	14	21	27
21	28 28	24 46	19 3	6 ♊25	25 15	12 39	29 52	12 17	13 19	0 24
22	29 28	25 59	20 24	18 24	11	32	0♏33	20	17	20
23	0♏28	27 13	21 44	0 ♋14	6	25	1 13	23	16	17
24	1 28	28 57	23 3	12 1	1	17	1 54	26	14	14
25	2 28	29 41	24 21	23 50	24 56	10	2 35	28	12	11
26	3 28	0 ♐55	25 37	5 ♌45	52	3	3 16	31	11	8
27	4 28	2 9	26 52	17 53	47	11 56	3 57	34	9	5
28	5 28	3 23	28 6	0 ♍19	24 42	11 49	4 38	12 36	13 7	0 1
29	6 28	4 37	29 17	13 6	38	43	5 18	39	6	29 58
30	7 28	5 51	0 ♐27	26 17	33	36	5 59	42	4	♐55
31	8 28	7 5	1 35	9 ♎54	24 28	11 30	6 41	12 44	13 2	29 52

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October 1880

Full Moon October 18th in ♈ 25° 29′

Declination of the Planets.

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		S	S	S	N	N	N	S	N	N
1	12 42	3 26	11 6	7 23	5 24	7 45	4 31	5 59	8 2	14 15
2	46	3 50	11 34	8 5	0 7	44	28	6 15	1	15
3	50	4 13	12 2	8 47	5 s18	42	25	31	0	14
4	54	4 36	12 30	9 30	10 36	40	22	46	7 59	13
5	58	4 59	12 58	10 10	15 26	39	19	7 2	57	13
6	13 2	5 22	13 25	10 51	19 28	37	16	18	56	13
7	13 6	5 45	13 52	11 32	22 22	7 35	4 13	7 33	7 55	14 12
8	9	6 8	14 18	12 10	23 50	34	10	49	53	12
9	13	6 31	14 44	12 48	22 45	32	7	8 5	52	11
10	17	6 54	15 10	13 27	22 7	30	3	20	51	10
11	21	7 17	15 35	14 3	19 7	29	0	36	50	10
12	25	7 39	16 0	14 39	15 3	27	3 57	51	49	10
13	29	8 2	16 25	15 16	10 14	25	54	9 6	48	9
14	13 33	8 24	16 49	15 50	4 55	7 24	3 51	9 21	7 47	14 8
15	37	8 46	17 13	16 24	0 N32	22	48	36	46	8
16	41	9 8	17 36	16 58	5 53	20	45	51	45	8
17	45	9 30	17 59	17 25	10 53	19	42	10 6	43	8
18	49	9 52	18 21	17 53	15 18	17	39	21	42	7
19	53	10 14	18 43	18 31	18 57	15	36	36	41	6
20	57	10 35	19 4	18 52	21 40	13	34	51	40	6
21	14 1	10 56	19 25	19 24	23 20	7 11	3 31	11 6	7 39	14 6
22	5	11 18	19 46	19 56	23 53	9	28	21	38	5
23	9	11 39	20 6	20 21	23 20	8	26	36	37	5
24	13	12 0	20 25	20 46	21 45	6	23	51	36	4
25	17	12 20	20 44	21 12	19 13	4	20	12 5	35	3
26	20	12 41	21 2	21 33	15 52	2	18	20	34	3
27	24	13 1	21 20	21 55	11 48	1	15	34	33	2
28	14 28	13 21	21 37	22 17	7 9	7 0	3 12	12 48	7 32	14 2
29	32	13 41	21 53	22 35	2 5	6 59	10	13 2	31	1
30	36	14 1	22 9	22 53	3 s13	57	8	16	30	1
31	14 40	14 20	22 25	23 11	8 32	6 55	3 5	13 30	7 29	14 0

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November 1880

New Moon November 2nd in ♏ 10° 28′

Longitude of the Planets

D	☉	☿	♀	♁	♃	♄	♂	♅	♆	♇
	° ♏′	° ♐′	° ♐′	° ♒′	° ♈′	° ♈′	° ♏′	° ♍′	° ♑′	° ♐′
1	9 28	8 19	2 40	23 55	24R24	11R24	7 22	12 47	13R 0	29 49
2	10 28	9 33	3 43	8 ♏16	19	18	8 3	49	12 59	46
3	11 28	10 47	4 43	22 52	15	12	8 44	51	57	43
4	12 28	12 0	5 40	7 ♐35	11	6	9 25	54	55	39
5	13 29	13 14	6 33	22 17	6	0	10 6	56	54	36
6	14 29	14 28	7 21	6 ♑54	2	10 55	10 48	58	52	33
7	15 29	15 42	8 6	21 19	23 58	10 49	11 29	13 1	12 50	29 30
8	16 29	16 56	8 45	5 ♒31	53	44	12 10	3	49	27
9	17 30	18 10	9 19	19 28	49	39	12 52	5	47	24
10	18 30	19 23	9 46	3 ♓ 9	45	34	13 33	7	45	20
11	19 31	20 37	10 6	16 36	41	30	14 15	9	44	17
12	20 31	21 51	10 18	29 49	37	25	14 57	11	42	14
13	21 31	23 4	10 22	12 ♈48	33	21	15 38	13	40	11
14	22 32	24 18	10R16	25 34	23 29	10 17	16 20	13 15	12 39	29 8
15	23 32	25 32	10 1	8 ♉ 8	25	13	17 1	17	37	5
16	24 33	26 45	9 36	20 30	22	9	17 43	18	35	1
17	25 33	27 59	9 0	2 ♊41	18	6	18 25	20	34	28 58
18	26 34	29 13	8 13	14 43	14	2	19 7	22	32	55
19	27 35	0♑26	7 16	26 37	11 9	59	19 49	23	30	51
20	28 35	1 40	6 11	8 ♋25	7	56	20 31	25	29	48
21	29 36	2 53	4 58	20 12	23 4	9 53	21 13	13 26	12 27	28 45
22	0 ♐36	4 7	3 40	2 ♌ 0	1	51	21 55	28	25	42
23	1 37	5 20	2 18	13 55	22 58	48	22 37	29	23	39
24	2 38	6 34	0 56	26 1	54	46	23 19	31	22	36
25	3 39	7 47	29♏ 6	8 ♍23	51	44	24 1	32	21	32
26	4 39	9 0	28 21	21 5	48	43	24 43	33	20	29
27	5 40	10 14	27 14	4 ♎12	46	41	25 25	35	18	26
28	6 41	11 27	26 16	17 46	22 43	9 40	26 8	13 36	12 16	28 23
29	7 42	12 41	25 28	1 ♏48	40	39	26 50	37	15	20
30	8 43	13 54	24 51	16 15	22 38	9 38	27 32	13 38	12 14	28 17

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November 1880

Full Moon November 16th in ♉ 24° 33'

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	S	S	S	N	N	S	N	N
1	14 44	14 39	22 40	23 26	13 35	6 53	3 3	13 44	7 28	14 0
2	48	14 58	22 54	23 38	18 0	51	3 1	58	27	0
3	52	15 17	23 7	23 50	21 23	50	2 59	14 12	26	13 59
4	56	15 36	23 20	24 1	23 23	49	57	26	25	58
5	15 0	15 54	23 32	24 8	23 45	48	55	40	24	58
6	4	16 12	23 43	24 15	22 29	46	53	53	23	58
7	15 8	16 29	23 54	24 22	19 45	6 44	2 51	15 6	7 22	13 57
8	12	16 47	24 4	24 23	15 51	42	49	20	21	56
9	16	17 4	24 13	24 24	11 8	41	47	33	20	55
10	20	17 21	24 22	24 24	5 58	40	45	46	20	55
11	24	17 37	24 29	24 18	0 37	38	43	59	19	54
12	27	17 54	24 36	24 12	4 N41	37	42	16 12	18	53
13	31	18 9	24 43	24 6	9 40	36	41	24	18	53
14	15 35	18 25	24 48	23 51	14 10	6 34	2 39	16 37	7 17	13 53
15	39	18 40	24 53	23 36	17 58	33	38	49	16	53
16	43	18 55	24 58	23 21	20 55	32	37	17 1	16	52
17	47	19 10	25 1	22 57	22 52	31	36	14	15	51
18	51	19 24	25 4	22 33	23 44	30	35	26	14	50
19	55	19 38	25 6	22 9	23 29	29	34	38	14	50
20	59	19 52	25 7	21 37	22 12	28	33	50	13	50
21	16 3	20 5	25 8	21 4	19 56	6 27	2 32	18 2	7 12	13 49
22	7	20 18	25 8	21 31	16 49	26	31	13	12	49
23	11	20 30	25 7	19 56	13 1	25	31	24	12	49
24	15	20 42	25 5	19 20	8 38	24	31	35	12	48
25	19	20 54	25 3	18 44	3 49	23	30	46	11	48
26	23	21 5	24 59	18 15	1 S16	22	30	57	11	48
27	27	21 16	24 55	17 46	6 28	21	30	19 8	11	47
28	16 31	21 26	24 51	17 16	11 32	6 20	2 29	19 19	7 10	13 47
29	34	21 37	24 47	16 46	16 11	19	29	30	10	46
30	16 38	21 46	24 43	16 17	20 2	6 18	2 29	19 41	7 10	13 46

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December 1880

Eclipse of Sun December 2nd in ♐ 10° 44′

New Moon December 31st in ♑ 10° 15′

Longitude of the Planets

D	☉	☿	♂	♃	♄	♅	♆	♇	☊
	° ♐′	° ♑′	° ♏′	° ♐′	° ♈′	° ♈′	° ♏′	° ♒′	° ♉′	° ♐′
1	9 44	15 7	24R26	1 2	22R35	9 R37	28 15	13 39	12R11	28 13
2	10 44	16 20	24 12	16 3	33	37	28 57	40	9	10
3	11 45	17 34	24 9	1 ♑ 9	31	36	29 40	41	8	7
4	12 46	18 47	24D17	16 9	28	36	0 ♐ 22	42	7	3
5	13 47	20 0	24 34	0 ♒58	26	D36	1 5	42	5	28 0
6	14 48	21 13	25 0	15 28	24	37	1 48	43	4	27 57
7	15 49	22 26	25 33	29 37	22 22	9 37	2 30	13 44	12 3	54
8	16 50	23 39	26 14	13♓23	21	38	3 13	44	1	51
9	17 51	24 52	27 1	26 47	19	393	56	45	12 0	48
10	18 52	26 5	27 53	9 ♈50	17	40	4 39	45	11 59	44
11	19 53	27 18	28 50	22 35	16	42	5 22	46	58	41
12	20 54	28 31	29 51	5 ♉ 5	15	43	6 5	46	57	38
13	21 55	29 43	0 ♐ 56	17 22	13	45	6 48	46	56	35
14	22 56	0♒56	2 4	29 29	22 12	9 47	7 31	13 47	11 54	32
15	23 57	2 9	3 15	11♊28	11	49	8 14	47	53	29
16	24 58	3 21	4 29	23 21	10	528	57	47	52	25
17	25 59	4 34	5 44	5 ♋11	9	54	9 40	47	51	22
18	27 1	5 46	7 1	16 59	9	57	10 23	47	50	19
19	28 2	6 59	8 21	28 47	8	10 0	11 6	13R47	49	16
20	29 3	8 11	9 41	10♌38	8	3	11 50	47	48	13
21	0♑ 4	9 23	11 3	22 36	22 7	10 7	12 33	13 47	11 47	10
22	1 5	10 36	12 26	4 ♍43	7	10	13 16	47	46	6
23	2 6	11 48	13 50	17 4	7	14	14 0	47	45	3
24	3 7	13 0	15 15	29 42	7	18	14 43	46	44	0
25	4 8	14 12	16 40	12♎41	D 7	22	15 27	46	43	26 57
26	5 10	15 24	18 6	26 5	7	27	16 10	46	42	54
27	6 11	16 36	19 33	9 ♏55	7	31	16 54	45	42	51
28	7 12	17 47	21 1	24 12	22 8	10 36	17 37	13R45	11 41	26 47
29	8 13	18 59	22 29	8 ♐54	8	41	18 21	44	40	44
30	9 14	20 11	23 58	23 55	9	46	19 5	43	39	41
31	10 15	21 22	25 27	9 ♑ 7	22 9	10 51	19 58	13 43	11 38	26 38

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Simplified Scientific

Ephemeris of the Planets' Places

Calculated for Mean Noon at Greenwich

December 1880

Eclipse of Moon December 16th in ♊ 24° 58′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	S	S	S	N	N	S	N	N
1	16 42	21 55	24 32	16 25	22 40	6 18	2 28	19 49	7 9	13 46
2	46	22 4	24 24	16 22	23 45	18	28	39	9	45
3	50	13	24 16	16 18	23 6	17	28	29	9	44
4	54	21	24 7	16 14	20 47	16	29	20 19	8	44
5	58	28	23 57	16 22	17 6	16	29	29	8	43
6	17 2	35	23 46	16 30	12 26	15	29	38	8	43
7	17 6	22 42	23 35	16 37	7 13	6 15	2 30	20 47	7 7	13 43
8	10	48	23 23	16 52	1 47	15	30	56	7	42
9	14	54	23 10	17 7	3 N34	14	31	21 5	7	42
10	18	59	22 57	17 22	8 39	14	32	21 13	7	42
11	22	23 4	22 43	17 41	13 14	14	33	21	7	41
12	26	8	22 29	18 0	17 10	13	34	29	7	41
13	30	12	22 14	18 19	20 18	13	35	37	6	41
14	17 34	23 16	21 58	18 40	22 28	6 13	2 36	21 45	7 6	13 40
15	38	19	21 42	19 1	23 37	12	37	52	6	40
16	42	22	21 25	19 22	23 39	12	38	22 0	6	40
17	45	24	21 7	19 43	22 38	12	39	7	6	39
18	49	25	20 49	20 4	20 36	12	40	14	6	39
19	53	26	20 30	20 24	17 42	12	42	21	6	39
20	57	27	20 10	20 44	14 4	12	44	27	6	38
21	18 1	23 27	19 50	21 4	9 52	6 12	2 46	22 33	7 6	13 38
22	5	26	19 30	21 23	5 13	13	47	40	6	38
23	9	26	19 19	21 41	0 18	13	49	46	6	38
24	13	25	18 58	21 58	4 S44	13	51	52	6	38
25	17	23	18 26	22 15	9 43	13	53	57	6	38
26	21	21	18 3	22 30	14 24	13	55	23 2	6	37
27	25	19	17 41	22 45	18 30	13	2 57	, 7	6	37
28	18 29	23 15	17 18	23 0	21 39	6 14	2 59	23 12	7 7	13 37
29	33	12	16 54	23 12	23 28	15	3 2	16	7	36
30	37	8	16 30	23 23	23 38	15	4	20	7	36
31	18 41	23 3	16 5	23 35	22 4	6 16	3 6	23 25	7 8	13 36

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1586	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	35	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5692	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3395	16

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

	12	13	14	15	16	17	18	19	20	21	22	23
)	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	82
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
0	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
1	45	02	84	89	11	51	05	73	52	42	42	50
2	38	2596	79	84	07	47	01	69	49	39	39	47
3	33	91	74	79	02	43	1197	65	45	35	35	44
4	27	85	69	74	1698	38	93	62	42	32	32	41
5	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
6	15	75	59	65	89	30	85	54	34	25	26	35
7	09	69	54	60	85	26	82	50	31	22	22	32
8	03	64	49	55	80	22	78	47	27	18	19	29
9	2897	58	44	50	76	17	74	43	24	15	16	25
0	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
1	85	47	34	41	67	09	66	35	17	08	09	19
2	80	42	29	36	63	05	62	32	13	05	06	16
3	74	36	23	32	58	01	58	28	09	01	03	13
4	68	31	18	27	54	1397	54	24	06	0498	00	10
5	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
6	56	20	08	17	45	88	46	17	0699	91	92	04
7	50	15	03	13	40	84	42	13	95	88	90	01
8	45	09	2198	08	36	80	38	09	92	85	87	0098
9	39	04	93	03	32	76	34	05	88	81	83	94
0	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
1	27	93	83	94	23	68	26	0898	81	74	77	88
2	21	88	78	90	19	63	23	94	78	71	74	85
3	16	83	73	85	14	59	10	91	74	68	71	82
4	10	77	68	80	10	55	15	87	70	64	67	79
5	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
6	2798	67	59	71	01	47	07	80	64	58	61	73
7	93	61	54	66	1597	43	03	76	60	54	58	70
8	87	56	49	62	92	39	1099	72	56	51	55	67
9	81	51	44	57	88	35	95	68	53	48	51	64
0	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
1	70	40	34	48	79	27	88	61	46	41	45	58
2	64	35	29	43	75	22	84	57	42	37	42	55
3	58	30	24	38	71	18	80	54	39	34	39	52
4	53	24	19	34	66	14	76	50	35	31	35	48
5	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
6	41	14	09	25	58	06	68	43	29	24	29	42
7	36	09	04	20	53	02	64	39	25	21	26	39
8	30	03	2099	16	49	1298	61	35	21	18	23	36
9	24	2398	2095	11	45	94	57	32	18	14	20	33
0	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
1	13	88	85	02	36	86	49	24	11	08	13	27
2	07	82	80	1797	32	82	45	21	08	04	10	24
3	02	77	75	93	28	78	41	17	04	01	07	21
4	2696	72	70	88	23	74	37	14	01	0398	04	18
5	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
6	85	62	61	79	15	66	30	06	94	91	0197	12
7	79	56	56	74	10	61	26	03	90	88	94	09
8	74	51	51	70	06	57	22	0799	87	84	91	06
9	68	46	46	65	02	53	18	95	83	81	88	03

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1881

New Moon January 30th in ♒ 10° 48′

Longitude of the Planets

D	☉	☿	♂	♃	♄	♅	♆	♇	☊
	° ♑′	° ♒′	° ♐′	° ♑′	° ♈′	° ♈′	° ♐′	° ♏′	° ♉′	° ♐′
1	11 17	22 34	26 57	24 21	22 10	10 57	20 32	13R42	11R38	26 35
2	12 18	23 45	28 27	9 ♒28	11	11 3	21 16	41	37	31
3	13 19	24 56	29 58	24 18	12	8	22 0	40	36	28
4	14 20	26 7	1♑29	8 ♓44	13	14	22 44	39	36	25
5	15 21	27 18	3 0	22 43	15	21	23 28	38	35	21
6	16 22	28 29	4 32	6 ♈14	16	27	24 12	37	34	18
7	17 24	29 40	6 4	19 19	22 18	11 24	24 56	13 36	11 34	26 15
8	18 25	0♓51	7 37	2 ♉ 0	19	40	25 40	35	33	12
9	19 26	2 2	9 10	14 23	21	47	26 24	34	33	9
10	20 27	3 12	10 44	26 31	23	54	27 8	33	33	6
11	21 28	4 22	12 18	8 ♊29	25	12 1	27 52	32	32	2
12	22 29	5 33	13 52	20 20	27	9	28 37	30	32	25 59
13	23 30	6 43	15 27	2 ♋ 8	22 29	16	29 21	29	32	56
14	24 31	7 53	17 3	13 55	22 31	12 24	0♑ 5	13 28	11 31	25 53
15	25 33	9 2	18 39	25 45	34	32	0 50	26	31	50
16	26 34	10 12	20 15	7 ♌38	36	40	1 34	25	31	47
17	27 35	11 21	21 52	19 37	39	48	2 18	23	31	43
18	28 36	12 31	23 30	1 ♍44	41	56	3 3	21	31	40
19	29 37	13 40	25 8	14 0	45	13 4	3 47	20	31	37
20	0♒38	14 49	26 47	26 27	47	13	4 32	18	31	34
21	1 39	15 58	28 26	9 ♎ 8	22 50	13 22	5 17	13 16	11 31	25 31
22	2 40	17 6	0♒ 6	22 5	53	30	6 1	15	D31	28
23	3 41	18 15	1 47	5 ♏21	56	39	6 46	13	31	24
24	4 42	19 23	3 28	18 58	59	49	7 31	11	31	21
25	5 43	20 31	5 10	2 ♐59	23 3	58	8 15	9	31	18
26	6 44	21 39	6 53	17 22	6	14 7	9 0	7	32	15
27	7 45	22 47	8 36	2 ♑ 7	10	16	9 45	5	32	12
28	8 46	23 55	10 20	17 7	23 13	14 26	10 30	13 3	11 32	25 9
29	9 47	25 2	12 4	2 ♒15	17	36	11 15	1	33	5
30	10 48	26 9	13 49	17 22	21	46	12 0	12 59	33	2
31	11 49	27 16	15 35	2 ♓18	23 25	14 56	12 45	12 57	11 33	24 59

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1881

Full Moon January 15th in ♋ 25° 33′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	S	S	S	N	N	S	N	N
1	18 45	22 58	15 40	23 45	18 54	6 17	3 8	23 29	7 9	13 37
2	49	53	15 15	23 53	14 28	18	11	33	10	36
3	52	47	14 49	24 0	9 15	19	14	36	10	36
4	56	41	14 23	24 7	3 40	19	16	39	10	36
5	19 0	34	13 56	24 11	1 N56	20	19	42	11	35
6	4	27	13 29	24 15	7 15	21	22	45	11	35
7	19 8	22 19	13 2	24 18	12 5	6 21	3 24	23 47	7 11	13 35
8	12	11	12 35	24 17	16 14	22	27	49	12	35
9	16	3	12 7	24 17	19 35	23	30	51	12	35
10	20	21 54	11 39	24 17	22 1	24	33	53	12	35
11	24	44	11 11	24 12	23 25	25	36	54	13	35
12	28	45	10 43	24 8	23 44	26	39	55	14	35
13	32	24	10 14	24 4	23 0	27	42	57	14	35
14	19 36	21 14	9 45	23 56	21 14	6 28	3 46	23 58	7 15	13 36
15	40	3	9 16	23 47	18 33	29	49	59	16	36
16	44	20 51	8 46	23 38	15 6	30	52	59	16	36
17	48	39	8 17	23 25	11 0	31	56	58	17	36
18	52	27	7 47	23 12	6 28	32	59	58	18	36
19	56	15	7 17	22 59	1 37	34	4 2	58	18	36
20	20 0	2	6 47	22 41	3 S22	35	6	57	19	36
21	20 3	19 48	6 17	22 23	8 17	6 36	4 10	23 56	7 20	13 36
22	7	35	5 46	22 6	12 58	38	13	55	20	36
23	11	20	5 16	21 44	17 9	39	17	53	21	36
24	15	6	4 45	21 22	20 32	40	21	51	22	36
25	19	18 51	4 14	21 0	22 50	42	24	49	22	36
26	23	36	3 44	20 34	23 42	44	28	46	23	36
27	27	21	3 13	20 7	22 57	46	32	44	24	36
28	20 31	18 5	2 42	19 40	20 34	6 47	4 36	23 42	7 24	13 36
29	35	17 49	2 11	19 9	16 44	49	40	38	25	36
30	39	32	1 40	18 38	11 50	51	44	35	26	36
31	20 43	17 15	1 9	18 6	6 16	6 52	4 48	23 32	7 26	13 37

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1881

New Moon February 28th in ♓ 10° 4'

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♒′	° ♓′	° ♒′	° ♓′	° ♈′	° ♈′	° ♑′	° ♏′	° ♐′	° ☊
1	12 49	28 23	17 21	16 54	23 29	15 6	13 30	12♎55	11 33	24 56
2	13 50	29 29	19 8	1 ♈ 4	33	16	14 15	53	34	52
3	14 51	0♈35	20 55	14 45	37	27	15 0	51	35	49
4	15 52	1 41	22 43	27 58	42	37	15 45	48	35	46
5	16 53	2 47	24 31	10♉44	46	48	16 30	46	36	43
6	17 54	3 53	26 19	23 8	50	58	17 15	44	36	40
7	18 54	4 58	28 7	5 ♊14	24 55	16 9	18 0	12 41	11 36	24 37
8	19 55	6 3	29 56	17 9	24 0	20	18 46	39	37	33
9	20 56	7 7	1♓44	28 57	4	31	19 31	37	38	30
10	21 56	8 11	3 31	10♋44	9	42	20 16	34	38	27
11	22 57	9 15	5 18	22 32	14	53	21 1	32	39	24
12	23 58	10 19	7 4	4 ♌25	19	17 5	21 47	30	40	21
13	24 58	11 22	8 48	16 26	24	16	22 32	27	40	18
14	25 59	12 25	10 31	28 37	24 29	17 28	23 17	12 25	11 41	24 14
15	26 59	13 28	12 11	10♍57	34	39	24 3	22	42	11
16	28 0	14 30	13 49	23 28	40	51	24 48	20	43	8
17	29 0	15 32	15 23	6 ♎11	45	18 3	25 34	17	44	5
18	0♓ 1	16 33	16 54	19 4	50	15	26 19	15	45	2
19	1 1	17 34	18 20	2 ♏10	24 56	27	27 5	12	46	23 59
20	2 2	18 35	19 41	15 30	25 1	39	27 50	9	47	55
21	3 2	19 35	20 57	29 4	25 7	18 51	28 36	12 7	11 48	23 52
22	4 2	20 35	22 6	12 ♐54	13	19 2	29 22	4	49	49
23	5 3	21 34	23 8	27 1	18	15	0♒ 7	2	50	46
24	6 3	22 33	24 3	11♑24	24	28	0 53	11 59	51	43
25	7 3	23 31	24 49	26 2	30	40	1 39	56	52	40
26	8 4	24 29	25 27	10♒48	36	53	2 25	54	53	36
27	9 4	25 27	25 56	25 37	42	20 5	3 10	51	54	33
28	10 4	26 23	26 16	10♓20	25 48	20 18	3 56	11 49	11 56	23 30

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EPHEMERIS OF THE PLANETS' PLACES
Calculated for Mean Noon at Greenwich
February, 1881
Full Moon February 14th in ☊ 25° 59′
Declination of the Planets

D	S T	☉	☿	♂	♃	♄	♅	♆	♇
		S	S	S	S	N	N	S	N	N
1	20 47	16 58	0 38	17 32	0 30	6 54	4 52	23 28	7 27	13 37
2	51	16 41	0 7	16 55	5 7	56	57	23	28	38
3	55	16 23	0 N24	16 18	10 19	58	5 1	19	29	38
4	59	16 5	0 55	15 40	14 50	59	5	15	30	38
5	21 3	15 47	1 26	14 59	18 32	7 1	10	10	31	38
6	7	15 29	1 57	14 17	21 17	3	14	5	32	38
7	21 10	15 10	2 27	13 35	22 59	7 4	5 18	23 0	7 33	13 38
8	14	14 51	2 58	12 50	23 38	6	23	22 54	34	39
9	18	14 32	3 29	12 5	23 11	8	27	48	35	39
10	22	14 12	3 59	11 20	21 43	10	31	43	36	39
11	26	13 52	4 30	10 33	19 19	12	36	36	37	40
12	30	13 32	5 0	9 46	16 5	14	40	29	38	40
13	34	13 12	5 30	8 58	12 10	16	44	23	38	40
14	21 38	12 52	6 0	8 10	7 43	7 19	5 49	22 16	7 39	13 41
15	42	12 31	6 30	7 22	2 56	21	54	9	40	41
16	46	12 10	6 59	6 33	2 s 3	23	58	2	41	41
17	50	11 49	7 29	5 46	7 0	25	6 3	21 54	42	42
18	54	11 28	7 58	4 58	11 44	27	8	46	43	42
19	58	11 7	8 27	4 10	16 1	29	12	38	44	42
20	22 2	10 45	8 56	3 28	19 33	32	17	29	45	43
21	22 6	10 24	9 25	2 45	22 6	7 34	6 22	21 20	7 46	13 43
22	10	10 2	9 53	2 2	23 23	36	26	12	47	43
23	14	9 40	10 21	1 27	23 13	39	31	2	48	44
24	18	9 18	10 49	0 52	21 30	41	36	20 53	49	44
25	21	8 55	11 17	0 16	18 22	43	41	44	50	44
26	25	8 33	11 44	0 N 8	14 1	46	46	34	51	45
27	29	8 10	12 11	0 32	8 50	48	51	24	52	45
28	22 33	7 48	12 38	0 56	3 11	7 50	6 56	20 14	7 53	13 45

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1881

New Moon March 29th in ♈ 8° 56′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♓′	° ♈′	° ♓′	° ♓′	° ♈′	° ♈′	° ♒′	° ♍′	° ♑′	° ♐′
1	11 4	27 20	26 26	24 50	25 54	20 31	4 42	11R46	11 57	23 27
2	12 5	28 15	26 27	8 ♈58	26 0	43	5 28	43	58	23
3	13 5	29 10	26R18	22 41	7	56	6 14	41	59	20
4	14 5	0♉ 5	26 1	5 ♉57	13	21 9	6 59	38	12 1	17
5	15 5	0 59	25 35	18 48	19	22	7 45	35	3	14
6	16 5	1 52	25 1	1 ♊15	26	35	8 31	33	5	11
7	17 5	2 45	24 21	13 24	26 32	21 48	9 17	11 30	12 6	23 8
8	18 5	3 36	23 34	25 21	39	22 2	10 3	28	7	4
9	19 5	4 27	22 43	7 ♋10	45	15	10 49	25	8	1
10	20 5	5 18	21 48	18 57	52	28	11 35	22	10	22 58
11	21 4	6 7	20 51	0 ♌48	59	42	12 21	20	12	55
12	22 4	6 56	19 53	12 46	27 5	55	13 7	17	14	52
13	23 4	7 43	18 55	24 54	12	23 8	13 53	15	15	49
14	24 4	8 30	17 59	7 ♍16	27 19	23 22	14 39	11 12	12 17	22 45
15	25 3	9 16	17 6	19 52	26	35	15 25	10	19	42
16	26 3	10 1	16 16	2 ♎41	33	49	16 11	7	20	39
17	27 3	10 45	15 30	15 44	39	24 3	16 57	5	22	36
18	28 2	11 28	14 50	28 59	46	16	17 43	2	24	33
19	29 2	12 10	14 15	12♏25	53	30	18 29	0	25	30
20	0♈ 1	12 50	13 46	26 0	28 1	44	19 15	10 57	27	26
21	1 1	13 30	13 23	9 ♐44	28 8	24 58	20 2	10 55	12 29	22 23
22	2 0	14 8	13 6	23 37	15	25 12	20 48	52	30	20
23	3 0	14 45	12 55	7 ♑39	22	25	21 34	50	32	17
24	3 59	15 21	12 50	21 49	29	39	22 20	48	34	14
25	4 59	15 56	12D51	6 ♒ 6	36	53	23 6	45	36	11
26	5 58	16 29	12 57	20 28	43	26 7	23 52	42	38	7
27	6 57	17 0	13 9	4 ♓15	51	21	24 39	41	40	4
28	7 57	17 30	13 26	19 8	28 58	26 35	25 25	10 38	12 42	22 1
29	8 56	17 59	13 48	3 ♈15	29 5	50	26 11	36	44	21 58
30	9 55	18 26	14 14	17 7	13	27 4	26 57	34	46	55
31	10 54	18 51	14 45	0 ♉39	29 20	27 18	27 43	10 32	12 47	21 52

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1881.

Full Moon March 16th in ♍ 26° 3′

Declination of the Planets

D	S	T	☉ S	♀ N	☿ N	☽ N	♄ N	♃ N	♂ S	♅ N	♆ N
1	22	38	7 25	13 5	1 12	2 33	7 52	7 1	20 4	7 54	13 46
2		42	7 2	13 31	1 18	8 1	55	6	53	55	47
3		46	6 39	13 57	1 24	12 55	57	11	42	56	47
4		50	6 16	14 22	1 30	17 1	59	15	19 31	57	47
5		53	5 53	14 47	1 21	20 11	8 2	20	19	58	48
6		57	5 29	15 12	1 13	22 17	5	25	8	59	49
7	23	1	5 6	15 37	1 5	23 17	8 7	7 30	18 57	8 0	13 49
8		5	4 43	16 1	0 44	23 12	10	36	45	1	50
9		9	4 19	16 25	0 23	22 3	12	41	33	2	50
10		13	3 56	16 48	0 3	19 57	14	46	21	3	50
11		17	3 32	17 11	0 26	16 59	17	51	9	4	51
12		21	3 9	17 33	0 54	13 19	20	56	17 51	5	51
13		25	2 45	17 55	1 s22	9 3	22	8 1	44	6	51
14	23	29	2 21	18 16	1 53	4 22	8 25	8 6	17 30	8 7	13 52
15		33	1 58	18 37	2 24	0 s35	27	11	17	8	53
16		37	1 34	18 58	2 54	5 35	29	16	4	9	53
17		41	1 10	19 18	3 23	10 26	32	22	16 51	10	54
18		45	0 47	19 38	3 52	14 52	35	27	38	11	55
19		49	0 23	19 57	4 20	18 37	37	32	24	12	55
20		53	0 N 1	20 15	4 43	21 24	40	37	9	13	56
21	23	57	0 24	20 33	5 6	22 58	8 43	8 42	15 55	8 14	13 57
22	0	0	0 48	20 51	5 29	23 8	45	47	41	15	57
23		4	1 12	21 8	5 45	21 51	48	53	27	16	58
24		8	1 35	21 24	6 1	19 11	51	58	13	17	58
25		12	1 59	21 40	6 16	15 20	53	9 3	14 58	17	58
26		16	2 22	21 55	6 25	10 35	56	8	43	18	59
27		20	2 46	22 10	6 33	5 15	59	13	28	19	14 0
28	0	24	3 9	22 24	6 41	0N 19	9 1	9 18	14 13	8 20	14 1
29		28	3 33	22 37	6 42	5 48	4	23	13 58	21	2
30		32	3 56	22 50	6 43	10 54	7	28	43	22	2
31	0	36	4 19	23 2	6 45	15 19	9	33	27	23	2

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1881

New Moon April 28th in ♉ 8° 18′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♃	♆	♇
	° ♈′	° ♉′	° ♓′	° ♉′	° ♈′	° ♈′	° ♒′	° ♍′	° ♉′	° ♑′
1	11 54	19 15	15 21	13 48	29 28	27 32	28 30	10R30	12 49	21 49
2	12 53	19 36	16 0	26 36	35	46	29 16	28	51	45
3	13 52	19 56	16 43	9 ♊ 4	42	28 0	0 ♓ 2	26	53	42
4	14 51	20 14	17 29	21 14	50	15	0 48	24	55	39
5	15 50	20 30	18 19	3 ♋ 13	57	29	1 35	22	58	36
6	16 49	20 44	19 13	15 4	0 ♉ 5	43	2 21	20	13 0	33
7	17 48	20 55	20 9	26 53	0 12	28 57	3 7	10 18	13 2	21 30
8	18 47	21 5	21 8	8 ♌ 45	20	29 12	3 53	16	4	26
9	19 46	21 12	22 10	20 46	28	26	4 39	14	6	23
10	20 44	21 17	23 14	3 ♍ 0	35	40	5 25	12	8	20
11	21 43	21 20	24 21	15 29	43	55	6 12	10	10	17
12	22 42	21 20	25 31	28 16	50	0 ♉ 9	6 58	9	12	14
13	23 41	21R18	26 43	11 ♎ 22	58	24	7 44	7	14	11
14	24 39	21 13	27 57	24 45	1 6	0 38	8 30	10 5	13 17	21 7
15	25 38	21 6	29 13	8 ♏ 24	13	52	9 16	4	19	4
16	26 37	20 56	0 ♈ 31	22 14	21	1 7	10 3	2	21	1
17	27 35	20 44	1 52	6 ♐ 14	28	21	10 49	1	23	20 58
18	28 34	20 30	3 14	20 20	36	35	11 35	9 59	25	55
19	29 32	20 13	4 38	4 ♑ 28	44	50	12 21	58	27	52
20	0 ♉ 31	19 53	6 5	18 38	51 2	4	13 6	56	30	48
21	1 29	19 32	7 33	2 ♒ 48	1 59	2 19	13 53	9 55	13 32	20 45
22	2 28	19 8	9 3	16 56	2 7	33	14 39	54	34	42
23	3 26	18 42	10 35	1 ♓ 0	14	47	15 25	53	37	39
24	4 25	18 14	12 3	14 59	21 3	2	16 11	51	39	36
25	5 23	17 45	13 44	28 49	30	16	16 58	50	41	33
26	6 21	17 13	15 21	12 ♈ 29	37	31	17 44	49	44	29
27	7 20	16 40	17 C	25 56	45	45	18 30	48	46	26
28	8 18	16 6	18 41	9 ♉ 7	2 52	3 59	19 16	9 47	13 48	20 23
29	9 16	15 30	20 24	22 1	3 0	4 14	20 2	46	51	19
30	10 14	14 54	22 8	4 ♊ 38	3 8	4 28	20 48	9 45	13 53	20 16

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1881

Full Moon April 14th in ♎ 24° 39′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♃	♂	♅	♆
		N	N	S	N	♑	♑	♋	N	N
1	0 39	4 42	23 13	6 42	18 53	9 12	9 39	13 11	8 22	14 2
2	43	5 6	23 23	6 34	21 24	15	44	12 55	23	3
3	47	5 29	23 33	6 26	22 49	18	49	39	24	4
4	51	5 51	23 42	6 19	23 5	20	54	23	25	4
5	55	6 14	23 49	6 6	22 17	23	59	7	26	5
6	59	6 37	23 56	5 53	20 29	26	10 4	11 51	27	6
7	1 3	6 59	24 3	5 40	17 49	9 28	10 9	11 35	8 28	14 7
8	7	7 22	24 7	5 21	14 24	31	14	19	29	8
9	11	7 44	24 11	5 3	10 23	34	19	2	30	9
10	15	8 6	24 16	4 45	5 53	36	25	10 45	30	9
11	19	8 28	24 17	4 21	1 3	39	30	29	31	10
12	23	8 50	24 18	3 58	3 s55	42	35	12	31	11
13	27	9 12	24 20	3 35	8 51	44	40	9 55	31	11
14	1 31	9 34	24 18	3 8	13 28	9 47	10 45	9 38	8 32	14 12
15	35	9 55	24 16	2 41	17 29	50	50	21	33	13
16	39	10 16	24 14	2 13	20 36	52	55	4	33	13
17	43	10 37	24 8	1 42	22 30	55	11 0	8 46	34	14
18	46	10 58	24 2	1 10	23 0	58	5	29	35	15
19	50	11 19	23 57	0 38	22 2	10 0	10	12	35	15
20	54	11 40	23 47	0 3	19 39	3	15	7 55	36	16
21	2 58	12 0	23 37	0 N32	16 5	10 6	11 20	7 37	8 36	11 17
22	2 2	12 20	23 28	1 7	11 37	8	25	19	36	17
23	6	12 40	23 14	1 45	6 33	11	30	1	37	18
24	10	13 0	22 0	2 23	1 11	14	35	6 44	37	18
25	14	13 20	22 47	3 2	4 N11	16	40	27	37	18
26	18	13 39	22 30	3 43	9 17	19	45	9	38	19
27	22	13 58	22 13	4 24	13 51	22	50	5 51	38	20
28	2 26	14 17	21 55	5 5	17 40	10 24	11 55	5 33	8 38	14 20
29	30	14 36	21 34	5 49	20 31	27	12 0	15	39	21
30	2 34	14 54	21 13	6 33	22 19	10 30	12 5	4 57	8 40	14 22

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1881

Eclipse of Sun May 27th in ♊ 6° 16′

Longitude of the Planets

D	☉	☿	♂	♃	♄	♅	♆	♇	☊
	° ♉ ′	° ♉ ′	° ♈ ′	° ♊ ′	° ♉ ′	° ♉ ′	° ♐ ′	° ♏ ′	° ♉ ′	° ♑ ′	° ♑ ′
1	11 13	14R17	23 55	16 59	3 15	4 43	21 34	9 R44	13 54	20 13
2	12 11	13 39	25 42	29 7	23	57	22 19	44	56	10
3	13 9	13 2	27 33	11♋ 4	31	5 11	23 5	43	58	7
4	14 7	12 24	29 24	22 55	38	26	23 51	42	14 1	4
5	15 5	11 46	1 ♉ 18	4 ♌ 45	46	40	24 37	41	3	1
6	16 3	11 10	3 13	16 38	53	54	25 23	40	5	19 58
7	17 1	10 33	5 11	28 49	4 1	6 8	26 9	9 40	14 8	19 54
8	17 59	9 58	7 10	10♍55	8	23	26 54	39	10	51
9	18 57	9 24	9 10	23 27	16	37	27 40	39	12	48
10	19 55	8 51	11 13	6 ♎ 19	23	51	28 26	38	15	45
11	20 53	8 20	13 17	19 33	31 7	5	29 12	38	17	42
12	21 51	7 51	15 22	3 ♏ 10	38	19	29 57	38	19	39
13	22 49	7 24	17 29	17 6	46	33	0 ♈ 43	38	21	35
14	23 46	6 58	19 37	1 ♐ 20	4 53	7 48	1 28	9 38	14 23	19 32
15	24 44	6 35	21 47	15 46	5 0	8 2	2 14	38	25	29
16	25 42	6 14	23 57	0 ♑ 18	8	16	2 59	38	28	26
17	26 40	5 55	26 8	14 51	15	30	3 45	38	30	23
18	27 38	5 39	28 19	29 20	22	44	4 30	D38	32	20
19	28 35	5 25	0♊31	13♒41	30	58	5 16	39	35	16
20	29 33	5 14	2 42	27 52	37	9 12	6 1	39	37	13
21	0♊31	5 5	4 53	11♓49	5 44	9 25	6 47	9 39	14 39	19 10
22	1 28	4 58	7 4	25 34	51	39	7 32	39	41	7
23	2 26	4 54	9 13	9 ♈ 4	58	53	8 17	40	43	4
24	3 24	4 52	11 22	22 20	6 5	10 7	9 2	40	45	1
25	4 21	4 D53	13 29	5 ♉ 22	12	21	9 48	40	48	18 57
26	5 19	4 56	15 34	18 10	19	34	10 33	41	50	54
27	6 16	5 1	17 38	0 ♊45	27	48	11 18	41	52	51
28	7 14	5 8	19 40	13 7	6 33	11 2	12 3	9 42	14 54	18 48
29	8 11	5 18	21 39	25 17	40	15	12 48	42	56	45
30	9 9	5 29	23 36	7 ♋19	47	29	13 33	43	58	42
31	10 6	5 43	25 31	19 13	6 54	11 42	14 18	9 43	15 0	18 38

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1881

Full Moon May 13th in ♏ 22° 49′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♅	♂	♃	♆
		N	N	N	N	N	N	S	N	N
1	2 38	15 12	20 53	7 16	22 58	10 31	12 9	4 39	8 39	14 23
2	42	30	20 30	8 1	22 30	33	14	4 21	39	24
3	46	48	20 7	8 47	21 0	36	19	4 3	39	25
4	50	16 5	19 45	9 33	18 36	39	24	3 46	40	25
5	53	22	19 20	10 19	15 26	41	29	3 27	40	26
6	57	39	18 56	11 6	11 38	43	34	3 9	40	27
7	3 1	16 56	18 32	11 53	7 20	10 46	12 38	2 51	8 41	14 27
8	5	17 12	18 8	12 40	2 41	49	43	2 33	41	28
9	9	29	17 44	13 27	2 s10	52	48	2 15	41	29
10	13	44	17 20	14 15	7 4	54	52	1 57	41	29
11	17	59	16 56	15 1	11 48	56	56	1 39	41	30
12	21	18 14	16 33	15 48	16 4	58	13 1	1 21	41	31
13	25	29	16 10	16 35	19 33	11 1	6	1 3	41	31
14	3 29	18 44	15 49	17 19	21 56	11 3	13 10	0 45	8 41	14 32
15	33	58	15 28	18 3	22 55	5	15	0 27	41	33
16	37	19 12	15 7	18 48	22 21	8	20	0 9	41	33
17	41	25	14 48	19 28	20 17	10	24	0 N 9	41	34
18	45	39	14 30	20 8	16 55	12	28	0 27	41	34
19	49	52	14 12	20 49	12 34	15	33	0 45	41	34
20	53	20 4	13 57	21 23	7 35	17	37	1 3	41	35
21	3 57	20 16	13 42	21 57	2 1S	11 19	13 41	1 21	8 41	14 36
22	4 1	28	13 27	22 32	3 N 2	22	46	1 39	41	36
23	4	40	13 15	22 59	8 7	24	50	1 57	41	37
24	8	51	13 3	23 26	12 45	26	54	2 15	41	38
25	12	21 2	12 51	23 53	16 42	29	59	2 32	40	38
26	16	12	12 43	24 12	19 47	31	14 3	2 50	40	39
27	20	22	12 35	24 31	21 52	33	7	3 8	40	40
28	4 24	21 32	12 26	24 50	22 51	11 36	14 12	3 25	8 39	14 40
29	28	41	12 21	25 1	22 43	38	16	3 43	39	41
30	32	50	12 16	25 12	21 31	40	20	4 1	39	42
31	4 36	21 59	12 11	25 23	19 22	11 42	14 24	4 18	8 38	14 42

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1881

New Moon June 20th in ♋ 4° 57′

Longitude of the Planets

D	☉	☿	♂	☽	♃	♅	♄	♆	♇	☊
	° ♊′	° ♉′	° ♊′	° ♌′	° ♉′	° ♉′	° ♍′	° ♏′	° ♉′	° ♑′
1	11 4	5 58	27 23	1 3	7 1	11 56	15 2	9 44	15 2	18 35
2	12 1	6 16	29 13	12 53	8	12 9	15 47	45	4	32
3	12 59	6 35	1♋ 0	24 46	14	22	16 32	46	6	29
4	13 56	6 56	2 45	6 ♏47	21	36	17 17	47	9	25
5	14 54	7 19	4 27	19 0	28	49	18 1	48	11	22
6	15 51	7 44	6 6	1 ♎30	34	13 2	18 46	49	13	19
7	16 48	8 10	7 42	14 21	7 41	13 15	19 30	9 50	15 15	18 16
8	17 46	8 38	9 16	27 35	47	28	20 15	51	17	13
9	18 43	9 7	10 47	11♏15	54	41	20 59	53	19	10
10	19 40	9 38	12 16	25 20	8 0	54	21 44	54	21	6
11	20 38	10 10	13 41	9 ♐47	7	14 7	22 28	55	23	3
12	21 35	10 43	15 4	24 31	13	20	23 12	56	25	0
13	22 32	11 18	16 23	9 ♑26	19	33	23 56	58	26	17 57
14	23 30	11 54	17 40	24 24	8 25	14 45	24 40	9 59	15 28	17 54
15	24 27	12 31	18 54	9 ♒16	31	58	25 24	10 1	30	51
16	25 24	13 9	20 5	23 56	37	15 10	26 8	2	32	47
17	26 21	13 49	21 13	8 ♓19	43	23	26 52	4	34	44
18	27 19	14 29	22 17	22 21	49	35	27 36	6	36	41
19	28 16	15 11	23 19	6 ♈ 1	55	48	28 20	7	37	38
20	29 13	15 53	24 17	19 21	9 1	16 0	29 4	9	39	35
21	0♋10	16 37	25 12	2 ♉22	9 7	16 12	29 47	10 11	15 41	17 32
22	1 8	17 21	26 3	15 6	13	24	0♉31	13	42	28
23	2 5	18 6	26 51	27 35	18	36	1 15	15	44	25
24	3 2	18 53	27 35	9 ♊53	24	48	1 58	17	46	22
25	3 59	19 39	28 15	22 0	29	17 0	2 41	19	47	19
26	4 57	20 27	28 51	4 ♋ 0	35	12	3 25	21	49	16
27	5 54	21 15	29 23	15 55	40	24	4 8	23	51	13
28	6 51	22 5	29 51	27 46	9 45	17 36	4 51	10 25	15 52	17 9
29	7 48	22 54	0♌15	9 ♌35	51	47	5 34	27	54	6
30	8 45	23 45	0 34	21 25	9 56	17 59	6 17	10 29	15 56	17 3

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1881

Eclipse of Moon June 12th in ♑ 21° 35′

Declination of the Planets

D	S T	☉	☿	♂	♃	♄	♅	♆	♇
		N	N	N	N	N	N	N	N
1	4 40	22 7	12 7	25 29	16 25	11 44	14 28	4 35	8 38	14 42
2	44	15	12 6	25 30	12 49	46	32	4 52	38	43
3	48	22	12 5	25 31	8 42	48	36	5 9	38	43
4	52	29	12 4	25 33	4 12	51	40	5 27	37	43
5	56	36	12 5	25 28	0 s31	53	44	5 44	37	44
6	5 0	42	12 6	25 23	5 19	55	48	6 1	37	45
7	5 4	22 48	12 8	25 18	10 2	11 57	14 52	6 18	8 36	14 45
8	8	53	12 11	25 8	14 26	59	56	6 34	36	46
9	11	59	12 14	24 58	18 14	12 1	15 0	6 51	35	47
10	15	23 3	12 18	24 47	21 7	2	4	7 8	34	47
11	19	7	12 24	24 33	22 42	4	8	7 24	34	48
12	23	11	12 30	24 19	22 45	6	12	7 41	34	49
13	27	15	12 35	24 4	21 12	8	15	7 58	33	49
14	5 31	23 18	12 42	23 46	18 10	12 10	15 19	8 14	8 33	14 50
15	35	20	12 49	23 29	13 58	12	23	8 30	32	50
16	39	22	12 57	23 12	9 0	14	26	8 47	31	50
17	43	24	13 5	22 52	3 38	16	30	9 3	31	51
18	47	26	13 13	22 33	1 N48	18	34	9 19	30	52
19	51	27	13 22	22 14	7 1	19	37	9 35	29	52
20	55	27	13 32	21 53	11 46	21	40	9 50	29	53
21	5 59	23 27	13 42	21 32	15 52	12 23	15 43	10 5	8 28	14 53
22	6 3	27	13 52	21 11	19 8	24	47	10 21	27	53
23	7	26	14 3	20 50	21 27	26	50	10 36	26	54
24	11	25	14 14	20 29	22 42	28	53	10 51	25	55
25	15	24	14 24	20 8	22 52	29	57	11 7	24	55
26	19	22	14 35	19 47	21 58	30	16 0	11 22	24	56
27	22	19	14 46	19 27	20 4	31	3	11 37	23	56
28	6 26	23 17	14 57	19 7	17 20	12 33	16 7	11 52	8 22	14 56
29	30	13	15 8	18 48	13 54	35	10	12 6	21	57
30	6 34	23 10	15 20	18 29	9 55	12 37	16 13	12 21	8 20	14 57

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1881

New Moon July 26th in ♌ 3° 34′

Longitude of the Planets

D	☉	☿	♀	♂	☾	♃	♄	♅	♆	♇	♁
	°♋′	°♉′	°♌′	°♍′	°♉′	°♉′	°♉′	°♍′	°♉′	°♐′
1	9 43	24 36	0 49	3 20	10 1	18 10	7 0	10 31	15 57	17 0
2	10 40	25 28	0 59	15 21	6	21	7 43	34	58	16 57
3	11 37	26 20	1 5	27 34	11	33	8 26	36	59	54
4	12 34	27 13	1 6	10♎ 1	16	44	9 8	38	16 1	50
5	13 31	28 7	1 R 2	22 47	21	55	9 51	41	2	47
6	14 29	29 1	0 54	5 ♏56	25	19 6	10 33	43	3	44
7	15 26	29 55	0 41	19 30	10 30	19 16	11 16	10 46	16 5	16 41
8	16 23	0♊50	0 23	3 ♐32	34	27	11 58	48	6	38
9	17 20	1 46	0 1	17 59	39	38	12 40	51	7	35
10	18 17	2 42	29♋35	2 ♑50	43	48	13 22	53	9	31
11	19 15	3 38	29 6	17 56	48	59	14 4	56	10	28
12	20 12	4 35	28 33	3 ♒10	52 20	9	14 46	59	11	25
13	21 9	5 32	27 58	18 20	56	19	15 28	11 2	13	21
14	22 6	6 30	27 20	3 ♓19	11 0	20 29	16 10	11 4	16 14	16 18
15	23 3	7 28	26 41	17 56	4	39	16 51	7	15	15
16	24 1	8 27	26 0	2 ♈ 9	8	49	17 33	10	16	12
17	24 58	9 26	25 19	15 54	12	59	18 14	13	17	9
18	25 55	10 25	24 39	29 12	16 21	9	18 56	16	18	6
19	26 52	11 25	24 0	12♉ 7	19	18	19 37	19	19	2
20	27 50	12 25	23 22	24 41	23	28	20 18	22	20	15 59
21	28 47	13 25	22 47	7 ♊ 0	11 26	21 37	20 59	11 25	16 21	15 56
22	29 44	14 26	22 15	19 6	30	46	21 40	28	22	53
23	0♌42	15 27	21 47	1 ♋ 4	33	55	22 21	31	23	50
24	1 39	16 28	21 24	12 56	36	22 4	23 2	34	24	47
25	2 36	17 30	21 5	24 46	39	13	23 42	37	25	43
26	3 34	18 32	20 51	6 ♌36	42	22	24 23	40	26	40
27	4 31	19 34	20 43	18 27	45	30	25 3	43	27	37
28	5 28	20 36	20 40	0 ♍21	11 48	22 39	25 43	11 46	16 27	15 34
29	6 26	21 39	20D44	12 19	51	47	26 24	50	28	31
30	7 23	22 42	20 54	24 25	53	55	27 4	53	29	28
31	8 21	23 45	21 10	6 ♎41	56	23 3	27 44	56	29	24

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1881

Full Moon July 11th in ♑ 19° 15′

Declination of the Planets

	S	T	☉ N	♀ N	☿ N	☽ N	♄ N	♃ N	♂ N	♅ N	♆ N
1	6	39	23 6	15 32	18 10	5 33	12 38	16 16	12 36	8 20	14 57
2		43	23 1	15 44	17 54	0 57	39	19	12 50	19	58
3		47	22 57	15 56	17 38	3 s46	40	22	13 4	18	58
4		51	22 52	16 8	17 22	8 26	42	25	13 18	17	58
5		54	22 46	16 20	17 9	12 52	43	28	13 31	16	59
6		58	22 40	16 32	16 56	16 49	44	31	13 45	15	59
7	7	2	22 34	16 44	16 43	20 2	12 45	16 34	13 59	8 14	14 59
8		6	22 27	16 56	16 35	22 10	46	37	14 12	13	15 0
9		10	22 20	17 8	16 27	22 55	47	40	14 25	12	0
10		14	22 12	17 19	16 18	22 5	49	42	14 39	10	0
11		18	22 4	17 30	16 14	19 40	50	45	14 51	9	1
12		22	21 56	17 41	16 10	15 52	51	48	15 4	8	1
13		26	21 47	17 53	16 7	11 2	52	50	15 17	7	1
14	7	30	21 38	18 4	16 8	5 36	12 53	16 53	15 29	8 6	15 2
15		34	21 29	18 15	16 9	0 N 1	54	56	15 42	5	2
16		38	21 19	18 26	16 10	5 28	56	58	15 55	4	2
17		42	21 9	18 36	16 16	10 29	57	17 0	16 6	3	3
18		46	20 58	18 46	16 22	14 50	58	2	16 18	2	3
19		50	20 48	18 57	16 27	18 21	58	5	16 30	1	3
20		54	20 36	19 7	16 36	20 55	59	7	16 41	0	3
21	7	58	20 25	19 17	16 45	22 26	13 0	17 9	16 52	7 59	15 3
22	8	1	20 13	19 26	16 55	22 53	1	12	17 4	58	3
23		5	20 1	19 34	17 7	22 15	2	14	17 15	57	4
24		9	19 48	19 43	17 19	20 37	2	16	17 26	56	4
25		13	19 35	19 52	17 31	18 7	3	18	17 37	54	4
26		17	19 22	19 59	17 44	14 52	4	20	17 47	53	5
27		21	19 8	20 7	17 57	11 2	4	22	17 57	52	5
28	8	25	18 55	20 15	18 10	6 46	13 5	17 25	18 8	7 50	15 5
29		29	18 40	20 22	18 22	2 14	6	27	18 18	49	5
30		33	18 26	20 29	18 35	2 s26	7	29	18 28	48	5
31		37	18 11	20 35	18 48	7 4	7	17 31	18 38	7 47	15 5

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1881

New Moon August 24th in ♍ 1° 24′

Longitude of the Planets

D	☉	☿	♀	☾	♄	♃	♂	♅	♆	♇
	°♌′	°♍′	°♎′	°♐′	°♑′	°♑′	°♑′	°♍′	°♑′	°♈′
1	9 18	24 49	21 33	19 9	11 58	23 11	28 23	11 59	16 30	15 21
2	10 16	25 52	22 2	1 ♏53	12 1	19	29 3	12 3	31	18
3	11 13	26 56	22 38	14 56	3	26	29 42	6	31	15
4	12 11	28 0	23 20	28 23	5	34	0♍22	9	31	11
5	13 8	29 5	24 8	12 ♐15	7	41	1 1	13	32	8
6	14 6	0 ♎ 9	25 3	26 32	9	48	1 40	16	33	5
7	15 3	1 14	26 4	11♑15	12 11	23 55	2 19	12 20	16 33	15 2
8	16 1	2 19	27 11	26 18	13	24 2	2 58	23	34	14 59
9	16 58	3 25	28 23	11♒32	14	9	3 37	27	34	56
10	17 56	4 30	29 41	26 48	16	15	4 15	30	34	52
11	18 53	5 36	1 ♌ 4	11♓55	17	22	4 54	34	35	49
12	19 51	6 41	2 33	26 43	19	28	5 32	37	35	46
13	20 48	7 48	4 6	11 ♈ 5	20	34	6 10	41	35	43
14	21 46	8 54	5 43	24 58	12 21	24 40	6 48	12 44	16 35	14 40
15	22 44	10 0	7 25	8 ♉21	22	46	7 26	48	35	37
16	23 41	11 7	9 10	21 17	23	51	8 4	52	35	33
17	24 39	12 14	10 58	3 ♊50	24	57	8 41	55	35	30
18	25 37	13 21	12 49	16 4	24	25 2	9 19	59	35	27
19	26 35	14 28	14 42	28 6	25	7	9 56	13 3	35	24
20	27 33	15 35	16 37	9 ♋59	25	12	10 33	6	35	21
21	28 30	16 42	18 34	21 48	12 26	25 17	11 10	13 10	16 35	14 19
22	29 28	17 50	20 32	3 ♌37	26	21	11 47	14	R35	14
23	0♍26	18 58	22 31	15 28	26	25	12 24	17	35	11
24	1 24	20 6	24 30	27 23	26	30	13 0	21	35	8
25	2 22	21 14	26 29	9 ♍24	R26	34	13 36	25	35	5
26	3 20	22 22	28 28	21 32	26	38	14 12	28	35	2
27	4 18	23 30	0♍27	3 ♎48	26	41	14 48	32	35	13 59
28	5 16	24 39	2 26	16 13	12 25	25 45	15 24	13 36	16 34	13 55
29	6 14	25 48	4 24	28 49	25	48	15 59	40	34	52
30	7 12	26 56	6 21	11♏38	24	51	16 35	43	34	49
31	8 10	28 5	8 17	24 42	24	54	17 10	47	33	46

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1881

Full Moon August 9th in ♒ 16° 58′

Declination of the Planets

D	S T	☉	☿	♂	♃	♄	♅	♆	♇
		N	N	N	S	N	N	N	N
1	8 40	17 56	20 41	19 0	11 30	13 7	17 32	18 48	7 45	15 5
2	44	17 41	20 43	19 10	15 31	8	34	57	44	5
3	48	17 25	20 51	19 20	18 54	9	36	19 6	43	5
4	52	17 9	20 56	19 30	21 23	9	38	15	41	5
5	56	16 53	20 59	19 36	22 40	10	40	23	40	5
6	9 0	16 36	21 2	19 42	22 32	10	42	32	39	5
7	9 4	16 20	21 6	19 48	20 51	13 10	17 43	19 41	7 37	15 5
8	8	16 3	21 8	19 49	17 42	11	44	49	36	5
9	12	15 45	21 10	19 50	13 20	11	45	58	35	5
10	16	15 28	21 13	19 50	8 5	11	47	20 6	33	6
11	20	15 10	21 14	19 43	2 25	11	48	13	32	6
12	24	14 52	21 15	19 36	3 N16	11	49	21	31	6
13	9 28	14 34	21 15	19 30	8 36	11	51	29	29	6
14	9 32	14 15	21 14	19 15	13 20	13 11	17 52	20 36	7 28	15 6
15	36	13 57	21 13	19 1	17 13	11	53	43	27	6
16	40	13 38	21 12	18 47	20 7	11	55	50	25	6
17	44	13 19	21 9	18 24	21 57	11	56	57	24	6
18	47	12 59	21 6	18 1	22 42	11	57	21 4	23	6
19	51	12 40	21 4	17 39	22 21	11	58	10	21	6
20	55	12 20	21 0	17 8	21 0	11	59	16	19	6
21	9 59	12 0	20 56	16 38	18 44	13 11	18 0	21 22	7 17	15 6
22	10 3	11 40	20 52	16 8	15 42	11	1	29	15	5
23	7	11 19	20 46	15 31	12 2	11	2	35	13	5
24	11	10 59	20 40	14 55	7 54	11	3	41	11	5
25	15	10 38	20 34	14 19	3 26	10	4	46	10	5
26	19	10 17	20 27	13 38	1 s13	10	5	51	9	5
27	23	9 56	20 20	12 57	5 51	10	6	56	8	5
28	10 27	9 35	20 12	12 17	10 19	13 9	18 6	22 1	7 7	15 5
29	31	9 14	20 3	11 32	14 24	9	7	6	7	5
30	35	8 52	19 54	10 48	17 54	9	8	11	6	5
31	10 39	8 30	19 44	10 4	20 35	13 8	18 8	22 15	7 2	15 4

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1881

New Moon September 23rd in ♎ 0° 34′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♃	♆	♇
	° ♍′	° ♌′	° ♍′	° ♐′	° ♑′	° ♑′	° ♊′	° ♍′	° ♑′	° ♐′
1	9 8	29 14	10 12	8 5	12R23	25 57	17 45	13 51	16 32	13 43
2	10 6	0♎23	12 6	21 48	22	59	18 19	55	31	40
3	11 5	1 33	13 59	5 ♑53	21	26 1	18 54	59	31	37
4	12 3	2 42	15 51	20 20	20	4	19 28	14 2	R31	33
5	13 1	3 52	17 42	5 ♒ 7	19	6	20 2	6	30	30
6	13 59	5 1	19 32	20 7	17	7	20 36	10	30	27
7	14 57	6 11	21 20	5 ♓12	12 16	26 9	21 10	14 14	16 29	13 24
8	15 56	7 21	23 8	20 13	14	10	21 44	17	28	21
9	16 54	8 31	24 54	4 ♈59	13	11	22 17	21	27	18
10	17 52	9 41	26 39	19 22	11	12	22 50	25	27	14
11	18 51	10 52	28 23	3 ♉18	9	13	23 23	29	26	11
12	19 49	12 2	0♎ 6	16 45	7	14	23 55	32	25	8
13	20 48	13 13	1 48	29 45	5	14	24 28	36	25	4
14	21 46	14 23	3 29	12♊20	12 3	26 14	25 0	14 40	16 24	13 1
15	22 45	15 34	5 8	24 36	1	14	25 32	44	23	12 58
16	23 43	16 45	6 47	6 ♋38	11 59	R14	26 3	48	23	55
17	24 42	17 56	8 25	18 32	56	13	26 35	51	22	52
18	25 41	19 7	10 1	0 ♌21	54	13	27 6	55	21	49
19	26 39	20 18	11 37	12 11	51	12	27 37	59	20	45
20	27 38	21 29	13 11	24 6	48	11	28 7	15 2	19	42
21	28 37	22 41	14 45	6 ♍ 7	11 46	26 10	28 37	15 6	16 18	12 39
22	29 35	23 52	16 18	18 17	43	8	29 7	10	17	36
23	0♎34	25 4	17 50	0 ♎37	40	7	29 37	14	16	33
24	1 33	26 16	19 21	13 8	37	5	0♋ 6	17	15	30
25	2 32	27 27	20 50	25 49	34	3	0 36	21	14	26
26	3 31	28 39	22 19	8 ♍41	31	0	1 4	25	13	23
27	4 30	29 51	23 47	21 45	27	25 50	1 33	28	12	20
28	5 29	1♍ 3	25 14	5 ♐ 0	11 24	25 55	2 1	15 32	16 10	12 17
29	6 28	2 15	26 40	18 28	20	52	2 29	35	9	14
30	7 27	3 27	28 6	2 ♑11	11 17	25 49	2 56	15 39	16 8	12 11

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1881

Full Moon September 8th in ♓ 15° 56′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ S	♄ N	♃ N	♂ N	♅ N	♆ N
1	10 43	8 9	19 34	9 19	22 11	13 8	18 8	22 20	7 1	15 4
2	47	7 47	19 23	8 32	22 31	7	9	24	0	3
3	51	7 25	19 12	7 45	21 27	6	10	28	6 59	3
4	54	7 3	19 0	6 59	18 57	6	10	32	57	3
5	58	6 40	18 47	6 12	15 12	5	11	35	56	2
6	11 2	6 18	18 24	5 25	10 25	4	11	39	55	2
7	11 6	5 56	18 22	4 38	5 0	13 4	18 11	22 43	6 54	15 2
8	10	5 33	18 7	3 50	0 N41	3	11	46	52	2
9	14	5 10	17 52	3 3	6 15	2	11	49	50	2
10	18	4 48	17 38	2 16	11 19	2	11	52	49	2
11	22	4 25	17 22	1 30	15 38	1	10	55	47	1
12	26	4 2	17 6	0 43	18 59	0	10	58	45	1
13	30	3 39	16 50	0 s 4	21 13	0	10	23 1	44	1
14	11 34	3 16	16 32	0 49	22 19	12 59	18 10	23 3	6 42	15 1
15	38	2 53	16 15	1 35	22 18	58	10	5	40	1
16	42	2 29	15 58	2 21	21 14	57	10	8	39	1
17	46	2 6	15 39	3 5	19 15	56	9	10	38	0
18	50	1 43	15 20	3 50	16 27	55	8	12	37	0
19	54	1 20	15 2	4 35	12 59	55	8	15	35	0
20	58	0 56	14 41	5 18	9 0	54	8	17	34	14 59
21	12 2	0 33	14 21	6 1	4 38	12 53	18 8	23 19	6 33	14 59
22	5	0 10	14 1	6 44	0 3	52	8	20	32	59
23	9	0 s14	13 39	7 25	4 s36	51	7	22	30	58
24	13	0 37	13 18	8 6	9 8	50	7	24	28	58
25	17	1 1	12 57	8 48	13 20	48	7	25	27	58
26	21	1 24	12 34	9 27	16 59	47	6	26	26	57
27	25	1 47	12 12	10 7	19 51	46	5	27	25	56
28	12 29	2 11	11 50	10 47	21 41	12 45	18 5	23 28	6 23	14 56
29	33	2 34	11 26	11 24	22 18	44	4	29	22	55
30	12 37	2 58	11 2	12 1	21 36	12 43	18 3	23 30	6 21	14 55

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1881

New Moon October 23rd in ♏ 0° 14′

Longitude of the Planets

D	☉	☿	♂	☽	♄	♅	♃	♆	♇	☊
	° ♎′	° ♍′	° ♎′	° ♈′	° ♉′	° ♉′	° ♑′	° ♍′	° ♉′	° ♐′
1	8 26	4 40	29 30	16 9	11R13	25R46	3 23	15 42	16R 7	12 7
2	9 25	5 52	0♏53	0 ♒22	10	43	3 50	46	6	4
3	10 24	7 4	2 14	14 49	6	39	4 17	50	5	1
4	11 23	8 17	3 35	29 26	2	35	4 43	53	3	11 58
5	12 22	9 30	4 55	14♓ 8	10 58	31	5 8	57	2	55
6	13 22	10 42	6 13	28 47	54	27	5 34	16 0	1	52
7	14 21	11 55	7 30	13♈15	10 50	25 23	5 59	16 3	15 59	11 48
8	15 20	13 8	8 46	27 27	46	18	6 23	7	57	45
9	16 19	14 21	10 1	11♉16	42	14	6 48	10	55	42
10	17 19	15 34	11 13	24 41	38	9	7 11	14	54	39
11	18 18	16 47	12 24	7 ♊41	34	4	7 35	17	53	36
12	19 18	18 0	13 34	20 19	29	24 58	7 58	20	52	33
13	20 17	19 13	14 41	2 ♋38	25	53	8 20	24	50	29
14	21 17	20 26	15 46	14 42	10 21	24 47	8 42	16 27	15 49	11 26
15	22 16	21 40	16 49	26 37	16	42	9 4	30	48	23
16	23 16	22 53	17 50	8 ♌28	12	36	9 25	33	46	20
17	24 15	24 7	18 47	20 20	7	30	9 46	37	44	17
18	25 15	25 20	19 42	2 ♍17	3	24	10 6	40	42	14
19	26 15	26 34	20 33	14 24	9 58	17	10 26	43	41	10
20	27 14	27 47	21 21	26 42	53	11	10 45	46	39	7
21	28 14	29 1	22 4	9 ♎14	9 49	24 4	11 4	16 49	15 37	11 4
22	29 14	0♎15	22 43	22 0	44	23 58	11 22	52	36	0
23	0♏14	1 29	23 16	5 ♏ 1	39	51	11 40	55	34	10 57
24	1 14	2 43	23 44	18 15	35	44	11 57	58	32	54
25	2 14	3 57	24 6	1 ♐41	30	37	12 14	17 1	31	10 51
26	3 14	5 11	24 22	15 19	25	30	12 30	4	29	48
27	4 13	6 25	24 30	29 5	20	22	12 45	7	27	45
28	5 13	7 39	24 30	13♑ 0	9 15	23 15	13 0	17 10	15 26	10 41
29	6 13	8 53	24R21	27 3	10	7	13 14	12	24	38
30	7 13	10 7	24 4	11♒21	6	0	13 28	15	22	35
31	8 13	11 21	23 37	25 25	9 1	22 52	13 40	17 18	15 21	10 32

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1881

Full Moon October 7th in ♈ 14° 21′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♅	♂	♆	Ψ
		S	N	S	S	N	N	N	N	N
1	12 41	3 21	10 39	12 39	19 35	12 41	18 2	23 31	6 19	14 55
2	45	3 44	10 14	13 14	16 19	40	1	32	18	54
3	49	4 7	9 49	13 49	12 2	39	0	33	17	54
4	53	4 31	9 25	14 25	7 1	37	17 59	34	15	54
5	57	4 54	9 0	14 57	1 34	36	58	35	13	53
6	13 1	5 17	8 34	15 29	3 N56	35	57	36	11	53
7	13 5	5 40	8 9	16 2	9 10	12 33	17 56	23 36	6 10	14 53
8	9	6 3	7 37	16 31	13 49	32	55	37	9	52
9	12	6 26	7 14	17 1	17 35	31	54	38	8	52
10	16	6 48	6 51	17 31	20 17	29	53	38	7	51
11	20	7 11	6 24	17 57	21 50	28	52	39	6	50
12	24	7 34	5 57	18 23	22 12	27	51	39	5	50
13	28	7 56	5 30	18 49	21 28	25	49	39	4	50
14	13 32	8 18	5 2	19 11	19 45	12 24	17 48	23 40	6 3	14 49
15	36	8 41	4 35	19 33	17 11	23	47	41	2	49
16	40	9 3	4 8	19 56	13 56	21	45	41	0	49
17	44	9 25	3 40	20 14	10 7	19	43	42	5 59	48
18	48	9 47	3 12	20 32	5 54	17	41	42	58	48
19	52	10 8	2 44	20 50	1 25	16	40	42	56	47
20	56	10 30	2 15	21 2	3 S12	15	38	43	55	47
21	14 0	10 51	1 47	21 14	7 47	12 14	17 36	23 44	5 54	14 47
22	4	11 13	1 19	21 26	12 6	12	35	44	53	46
23	8	11 34	0 50	21 31	15 58	10	33	45	52	45
24	12	11 55	0 22	21 37	19 4	8	31	46	51	45
25	16	12 15	0 S 6	21 43	21 12	7	30	46	49	45
26	19	12 36	0 35	21 40	22 7	6	28	47	48	44
27	23	12 56	1 4	21 37	21 42	5	26	48	47	43
28	14 27	13 16	1 33	21 34	19 57	12 3	17 24	23 48	5 46	14 43
29	31	13 36	2 1	21 20	16 59	1	22	49	45	42
30	35	13 56	2 30	21 6	13 0	0	20	50	44	42
31	14 39	14 16	2 59	20 53	8 17	11 58	17 19	23 51	5 43	14 42

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1881

Eclipse of Sun November 21st in ♏ 29° 21′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♏′	° ♐′	° ♏′	° ♓′	° ♉′	° ♉′	° ♋′	° ♍′	° ♉′	° ♐℞
1	9 14	12 36	23R 0	9 40	8 R56	22R44	13 53	17 21	15R20	10 29
2	10 14	13 50	22 14	23 55	51	37	14 4	23	18	26
3	11 14	15 4	21 19	8 ♈ 5	46	29	15	26	16	23
4	12 14	16 19	20 15	22 5	41	21	26	28	15	19
5	13 14	17 33	19 5	5 ♉ 53	37	13	36	31	13	16
6	14 14	18 48	17 49	19 24	32	5	45	33	11	13
7	15 15	20 2	16 30	2 ♊ 37	8 27	21 57	14 53	17 36	15 10	10 10
8	16 15	21 17	15 10	15 30	22	49	15 0	38	8	7
9	17 15	22 31	13 52	28 5	18	41	7	41	6	4
10	18 16	23 46	12 39	10♋ 24	13	32	13	43	4	0
11	19 16	25 1	11 32	22 29	8	24	19	45	2	9 57
12	20 16	26 15	10 34	4 ♌ 26	3	16	23	47	0	54
13	21 17	27 30	9 46	16 18	7 59	8	27	50	14 59	51
14	22 17	28 45	9 9	28 11	7 54	21 0	15 30	17 52	14 57	9 48
15	23 18	0♏ 0	8 44	10♍ 8	50	20 52	32	54	55	45
16	24 18	1 14	8 31	22 16	45	43	33	56	54	41
17	25 19	2 29	8 29	4 ♎ 37	41	35	34	58	52	38
18	26 19	3 44	8 D38	17 15	36	27	R33	18 0	50	35
19	27 20	4 59	8 57	0 ♏ 11	32	19	32	2	49	32
20	28 21	6 14	9 25	13 28	27	11	30	3	48	29
21	29 21	7 29	10 2	27 3	7 23	20 3	15 27	18 5	14 47	9 26
22	0 ♐ 22	8 44	10 46	10 ♐ 55	19	19 55	24	7	45	22
23	1 23	9 59	11 36	25 1	15	47	19	9	43	19
24	2 23	11 14	12 33	9 ♑ 16	10	39	13	10	41	16
25	3 24	12 29	13 34	23 36	6	32	7	12	40	13
26	4 25	13 44	14 40	7 ♒ 56	2	24	0	13	38	10
27	5 26	14 59	15 50	22 14	6 58	16	14 52	15	36	7
28	6 27	16 14	17 3	6 ♓ 26	6 54	19 9	14 43	18 16	14 35	9 3
29	7 27	17 30	18 19	20 31	51	2	33	18	34	0
30	8 28	18 45	19 37	4 ♈ 25	6 47	18 54	14 22	18 19	14 33	8 57

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1881

Full Moon November 6th in ♉ 14° 14'

Declination of the Planets

D	S T	☉	♀	☽	☽	♄	♃	♂	♅	♆
		S	S	S	S	N	N	N	N	N
1	14 43	14 35	3 27	20 31	3 7	11 57	17 17	23 52	5 42	14 41
2	47	14 54	3 55	20 1	2 N13	55	15	53	41	40
3	51	15 13	4 24	19 31	7 24	53	13	54	40	39
4	55	15 31	4 53	19 1	12 9	52	11	56	39	39
5	59	15 49	5 21	18 21	16 12	51	9	58	38	38
6	15 3	16 7	5 49	17 41	19 17	50	7	24 0	37	38
7	15 7	16 25	6 18	17 1	21 17	11 48	17 5	24 1	5 36	14 38
8	11	16 43	6 46	16 19	22 5	47	3	3	35	37
9	15	17 0	7 14	15 37	21 44	46	1	5	34	36
10	19	17 17	7 42	14 55	20 19	44	16 59	6	33	36
11	23	17 33	8 10	14 21	18 0	42	57	8	32	35
12	27	17 50	8 38	13 47	14 57	40	55	10	31	35
13	30	18 6	9 5	13 14	11 19	39	53	13	31	35
14	15 34	18 21	9 32	12 55	7 15	11 38	16 51	24 15	5 30	14 34
15	38	18 37	9 59	12 37	2 54	37	49	17	29	34
16	42	18 52	10 26	12 19	1 S38	35	47	20	28	34
17	46	19 6	10 52	12 17	6 12	34	45	23	27	33
18	50	19 21	11 18	12 15	10 36	33	43	26	26	32
19	54	19 35	11 45	12 12	14 39	31	41	29	26	32
20	58	19 48	12 10	12 22	18 4	30	39	32	25	31
21	16 2	20 2	12 36	12 32	20 35	11 29	16 37	24 35	5 24	14 31
22	6	20 14	13 2	12 43	21 55	28	35	39	24	31
23	10	20 27	13 26	13 2	21 54	27	33	42	23	30
24	14	20 39	13 50	13 21	20 28	26	31	45	22	30
25	18	20 51	14 15	13 41	17 44	24	29	49	22	30
26	22	21 2	14 38	14 5	13 55	23	27	53	21	29
27	26	21 13	15 2	14 30	9 19	22	25	57	20	29
28	16 30	21 24	15 26	14 55	4 14	11 21	16 23	25 1	5 19	14 29
29	34	21 34	15 48	15 21	1 N 0	20	21	5	19	28
30	16 37	21 44	16 10	15 48	6 9	11 19	16 19	25 9	5 19	14 27

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1881

New Moon December 21st in ♐ 29° 49′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♐′	° ♏′	° ♏′	° ♈′	° ♑′	° ♑′	° ♋′	° ♒′	° ♑′	° ♐′
1	9 29	20 0	20 57	18 9	6 R43	18R47	14R11	18 20	14R31	8 53
2	10 30	21 15	22 19	1 ♉41	40	40	13 59	22	29	50
3	11 31	22 30	23 43	15 1	36	33	45	23	27	47
4	12 32	23 45	25 7	28 7	33	26	32	24	26	44
5	13 33	25 1	26 33	11♊ 0	29	20	17	25	25	41
6	14 34	26 16	28 0	23 39	26	13	1	26	24	38
7	15 34	27 31	29 28	6 ♋ 5	6 23	18 7	12 45	18 27	14 22	8 34
8	16 35	28 46	0 ♐ 56	18 19	20	0	28	28	21	31
9	17 36	0 ♐ 2	2 25	0 ♌23	17	17 54	11	29	20	28
10	18 37	1 17	3 55	12 19	14	48	11 52	29	18	25
11	19 38	2 32	5 24	24 11	11	42	33	30	17	22
12	20 39	3 48	6 55	6 ♍ 3	8	37	14	31	16	19
13	21 40	5 3	8 25	17 59	6	31	10 54	31	14	15
14	22 42	6 18	9 56	0 ♎ 3	6 3	17 26	10 33	18 32	14 13	8 12
15	23 43	7 34	11 28	12 22	1	21	12	32	12	9
16	24 44	8 49	12 59	24 58	5 58	16	9 50	33	10	6
17	25 45	10 4	14 31	7 ♏55	56	11	28	33	9	3
18	26 46	11 20	16 3	21 17	54	6	5	34	8	0
19	27 47	12 35	17 35	5 ♐ 4	52	2	8 43	34	7	7 56
20	28 48	13 50	19 7	19 14	50	16 57	19	34	6	53
21	29 49	15 6	20 40	3 ♑43	5 48	16 53	7 56	18 34	14 5	7 50
22	0♑50	16 21	22 13	18 27	46	49	32	34	4	47
23	1 52	17 37	23 46	3 ♒17	45	45	9	34	3	44
24	2 53	18 52	25 19	18 5	43	42	6 45	34	2	41
25	3 54	20 7	26 53	2 ♓44	42	38	21	R34	1	37
26	4 55	21 23	28 27	17 9	40	35	5 57	34	0	34
27	5 56	22 38	0♑ 1	1 ♈17	39	32	33	34	13 59	31
28	6 57	23 54	1 35	15 5	5 38	16 30	5 9	18 34	13 58	7 28
29	7 59	25 9	3 10	28 35	37	27	4 46	33	57	25
30	9 0	26 24	4 45	11 ♉47	36	25	23	33	56	22
31	10 1	27 40	6 20	24 44	5 35	16 23	3 59	18 33	13 55	7 18

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1881

Eclipse of Moon December 5th in ♊ 13° 33′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♃	♂	♅	♆
		S	S	S	N	N	N	N	N	N
1	16 41	21 53	16 33	16 15	10 55	11 18	16 18	25 13	5 19	14 27
2	45	22 2	16 54	16 42	15 5	17	16	17	19	27
3	49	11	17 15	17 9	18 25	16	14	21	19	27
4	53	19	17 36	17 37	20 44	15	13	26	18	26
5	57	26	17 55	18 4	21 56	14	11	30	18	26
6	17 1	34	18 15	18 31	21 58	13	9	34	18	26
7	17 5	22 40	18 35	18 58	20 55	11 12	16 8	25 39	5 17	14 25
8	9	47	18 53	19 23	18 53	11	7	43	17	25
9	13	53	19 11	19 48	16 3	10	6	47	17	25
10	17	58	19 30	20 13	12 35	10	4	52	17	24
11	21	23 3	19 46	20 35	8 39	9	3	56	17	24
12	25	7	20 2	20 58	4 24	8	2	26 0	17	24
13	29	12	20 19	21 21	0 ♒ 3	♑	☋	5	16	23
14	17 33	23 15	20 34	21 34	4 32	11 7	15 59	26 9	5 16	14 23
15	37	18	20 49	21 47	8 57	6	58	13	16	23
16	41	21	21 4	22 0	13 5	6	56	18	15	22
17	45	23	21 16	22 24	16 44	5	55	22	15	22
18	48	25	21 29	22 48	19 39	5	54	26	15	22
19	52	26	21 42	23 12	21 31	5	53	29	15	21
20	56	27	21 53	23 25	22 5	4	52	32	15	21
21	18 0	23 27	22 4	23 39	21 12	11 4	15 51	26 35	5 15	14 21
22	4	27	22 16	23 53	18 52	4	50	39	15	21
23	8	26	22 25	24 3	15 17	3	49	42	15	21
24	12	25	22 34	24 13	10 45	3	48	45	15	21
25	16	24	22 43	24 23	5 39	3	48	48	15	20
26	20	22	22 50	24 29	0 18	3	47	51	15	20
27	24	19	22 57	24 35	4 N57	3	46	54	15	20
28	18 28	23 16	23 4	24 42	9 50	11 3	15 46	26 56	5 15	14 19
29	32	13	23 9	24 44	14 8	3	45	58	15	19
30	36	9	23 14	24 46	17 38	3	45	27 0	15	19
31	18 40	23 4	23 18	24 48	20 12	11 3	15 45	27 2	5 15	14 18

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	35	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	88	29
10	2.1584	1.3133	1.0444	8796	7604	6678	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5692	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3395	16

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	83
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	19	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	56	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06
[illegible]												

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1882

New Moon January 19th in ♑ 29° 22′

Longitude of the Planets

D	☉	☿	☿	☽	♄	♃	♂	♅	♆	☊
	° ♑′	° ♐′	° ♑′	° ♊′	° ♉′	° ♉′	° ♌′	° ♍′	° ♉′	° ♐′
1	11 2	28 55	7 55	7 29	5 R35	16R21	3 R37	18R32	13R55	7 15
2	12 3	0♑11	9 31	19 59	34	19	3 14	32	55	11
3	13 4	1 26	11 8	2 ♌21	34	17	2 52	31	54	8
4	14 5	2 41	12 44	14 34	33	16	2 31	30	53	5
5	15 7	3 57	14 21	26 40	33	15	2 9	30	53	7 2
6	16 8	5 12	15 59	8 ♎39	33	14	1 48	29	52	59
7	17 9	6 28	17 37	20 34	5 33	16 13	1 28	18 28	13 51	6 56
8	18 10	7 43	19 15	2 ♍25	D33	13	1 9	27	51	52
9	19 11	8 58	20 54	14 17	34	13	0 50	26	50	49
10	20 12	10 14	22 33	26 12	34	13	0 32	25	49	46
11	21 13	11 29	24 13	8 ♏14	35	D13	0 14	24	49	43
12	22 14	12 45	25 53	20 27	35	13	29♊57	23	49	40
13	23 16	14 0	27 34	2 ♍57	36	14	40	22	48	37
14	24 17	15 15	29 15	15 48	5 36	16 14	29 25	18 21	13 48	6 33
15	25 18	16 31	0♒56	29 5	37	15	29 10	20	48	30
16	26 19	17 46	2 38	12 ♐49	38	16	28 56	19	47	27
17	27 20	19 2	4 20	27 2	39	18	28 42	17	47	24
18	28 21	20 17	6 3	11♑41	41	19	28 30	16	47	21
19	29 22	21 32	7 45	26 41	42	21	28 18	15	47	18
20	0♒23	22 48	9 28	11♒53	44	23	28 7	13	47	14
21	1 24	24 3	11 12	27 6	5 45	16 25	27 58	18 12	13D46	6 11
22	2 25	25 19	12 55	12♓ 9	47	28	27 47	10	46	8
23	3 26	26 34	14 38	26 55	49	30	27 39	9	47	5
24	4 27	27 49	16 20	11♈16	51	33	27 31	7	47	6 2
25	5 28	29 5	18 3	25 12	53	36	27 24	5	47	5 59
26	6 29	0♒20	19 44	8 ♉41	55	39	27 18	4	47	55
27	7 30	1 35	21 25	21 46	57	42	27 13	2	47	52
28	8 31	2 51	23 5	4 ♊32	5 59	16 46	27 8	18 0	13 47	5 49
29	9 32	4 6	24 43	17 2	6 2	50	27 5	17 58	47	46
30	10 33	5 21	26 19	29 19	4	54	27 2	56	47	43
31	11 34	6 37	27 52	11♋27	6 7	16 58	27 0	17 54	13 47	5 40

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1882

Full Moon January 4th in ♋ 14° 5'

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♆	Ψ
		S	S	S	N	N	N	N	N	N
1	18 44	23 0	23 22	24 47	21 41	11 3	15 45	27 3	5 16	14 18
2	48	22 54	24	24 43	22 4	3	45	4	16	18
3	52	49	26	24 39	21 21	3	45	6	16	18
4	55	42	28	24 36	19 38	3	45	7	16	17
5	59	36	27	24 28	17 3	3	45	8	16	17
6	19 3	29	27	24 20	13 47	3	45	8	16	17
7	19 7	22 21	23 27	24 12	9 59	11 4	15 45	27 9	5 17	14 17
8	11	13	25	24 0	5 49	4	45	9	17	11
9	15	5	23	23 48	1 27	4	45	9	17	17
10	19	21 56	20	23 35	2 S59	5	45	10	18	17
11	23	47	16	23 17	7 23	5	45	10	18	17
12	27	37	12	23 0	11 31	5	45	10	18	17
13	31	27	7	22 43	15 17	6	46	10	20	17
14	19 35	21 16	23 1	22 21	18 27	11 7	15 46	27 10	5 20	14 17
15	39	5	22 54	21 59	20 45	7	46	10	20	17
16	43	20 54	47	21 37	21 55	8	47	9	21	17
17	47	42	38	21 11	21 45	8	48	9	21	17
18	51	30	29	20 44	20 6	9	49	8	22	17
19	55	18	21	20 17	17 3	10	50	7	23	17
20	59	5	10	19 45	12 49	11	50	7	24	17
21	20 3	19 51	21 59	19 14	7 47	11 12	15 51	27 6	5 24	14 17
22	6	38	48	18 43	2 19	13	52	5	25	17
23	10	24	35	18 7	3 N11	13	53	4	25	17
24	14	9	22	17 32	8 21	14	54	3	26	17
25	18	18 55	10	16 57	12 56	15	56	2	27	17
26	22	40	20 56	16 18	16 43	16	57	1	27	17
27	26	24	41	15 39	19 32	17	58	0	28	17
28	20 30	18 8	20 26	15 0	21 18	11 18	15 59	26 59	5 29	14 17
29	34	17 52	10	14 18	21 57	19	16 1	58	29	17
30	38	36	19 54	13 37	21 32	20	2	57	30	17
31	20 42	17 19	19 37	12 56	20 7	11 22	16 3	26 56	5 31	14 17

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1882

New Moon February 18th in ♒ 29° 46'

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♒′	° ♒′	° ♒′	° ♋′	° ♉′	° ♉′	° ♊′	° ♍′	° ♉′	° ♑′
1	12 35	7 52	29 23	23 29	6 10	17 2	26R58	17R52	13 48	5 36
2	13 36	9 7	0♓50	5 ♌27	12	7	26 58	50	48	33
3	14 36	10 22	2 13	17 21	15	12	26D58	48	48	30
4	15 37	11 38	3 22	29 14	18	16	26 59	46	49	27
5	16 38	12 53	4 44	11♍ 6	22	22	27 0	44	49	24
6	17 39	14 8	5 51	23 0	25	27	27 3	42	49	21
7	18 39	15 23	6 51	4 ♎57	6 28	17 32	27 6	17 40	13 50	5 17
8	19 40	16 39	7 43	17 0	32	38	27 10	38	50	14
9	20 41	17 54	8 26	29 13	35	43	27 14	35	51	11
10	21 41	19 9	9 0	11♍40	39	49	27 20	33	52	8
11	22 42	20 24	9 25	24 25	43	55	27 25	31	52	5
12	23 43	21 39	9 39	7 ♐32	46	18 2	27 32	29	53	2
13	24 43	22 55	9 43	21 7	50	8	27 39	26	54	4 58
14	25 44	24 10	9 R37	5 ♑10	6 54	18 15	27 47	17 24	13 54	4 55
15	26 45	25 25	9 20	19 42	58	21	27 55	22	55	52
16	27 45	26 40	8 54	4 ♒39	7 3	28	28 4	19	56	49
17	28 46	27 55	8 18	19 54	7	35	28 14	17	57	46
18	29 46	29 10	7 33	5 ♓16	11	43	28 24	14	58	43
19	0♓47	0♓26	6 41	20 33	16	50	28 35	12	59	39
20	1 47	1 41	5 44	5 ♈34	20	57	28 46	9	14 0	36
21	2 48	2 56	4 42	20 11	7 25	19 5	28 58	17 7	14 1	4 33
22	3 48	4 11	3 38	4 ♉19	30	13	29 11	4	14 2	30
23	4 48	5 26	2 32	17 57	34	21	29 24	2	3	27
24	5 49	6 41	1 27	1 ♊ 7	39	29	29 37	16 59	4	24
25	6 49	7 56	0 25	13 53	44	37	29 51	57	5	20
26	7 49	9 11	29♒25	26 19	49	46	0♋ 6	54	6	17
27	8 49	10 26	28 30	8 ♋31	54	54	0 21	51	7	14
28	9 50	11 41	27 41	20 33	8 0	20 3	0 36	16 49	14 8	4 11

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1882

Full Moon February 3rd in ♌ 14° 36′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	S	S	N	N	N	N	N	N
1	20 46	17 2	19 19	12 14	17 48	11 23	16 5	26 54	5 32	14 18
2	50	16 45	19 1	11 33	14 45	24	7	53	33	18
3	54	16 28	18 42	10 51	11 7	25	9	52	34	18
4	58	16 10	18 23	10 9	7 5	26	10	51	35	18
5	21 2	15 52	18 2	9 31	2 47	27	12	50	36	18
6	6	15 33	17 42	8 53	1 s38	29	14	49	36	18
7	21 10	15 14	17 22	8 15	6 0	11 30	16 15	26 48	5 37	14 19
8	13	14 55	17 1	7 44	10 11	32	17	46	38	19
9	17	14 36	16 39	7 13	14 0	34	19	45	39	19
10	21	14 17	16 17	6 42	17 17	35	20	44	40	19
11	25	13 57	15 53	6 22	19 50	36	22	43	41	19
12	29	13 37	15 30	6 2	21 24	38	24	42	42	19
13	33	13 17	15 7	5 42	21 48	39	26	41	43	20
14	21 37	12 57	14 42	5 34	20 51	11 41	16 28	26 40	5 44	14 20
15	41	12 36	14 18	5 27	18 32	43	30	39	45	20
16	45	12 15	13 54	5 22	14 55	44	32	38	46	21
17	49	11 55	13 28	5 29	10 16	46	34	37	47	21
18	53	11 33	13 3	5 36	4 56	48	36	35	48	21
19	57	11 12	12 38	5 44	0 N41	49	39	34	49	22
20	22 1	10 51	12 12	6 3	6 9	50	41	33	50	22
21	22 5	10 29	11 45	6 24	11 8	11 52	16 44	26 32	5 50	14 22
22	9	10 7	11 18	6 42	15 20	54	46	31	51	23
23	13	9 45	10 50	7 8	18 33	56	49	30	52	23
24	17	9 23	10 23	7 34	20 40	58	51	29	53	23
25	20	9 1	9 56	8 0	21 38	59	53	27	54	24
26	24	8 38	9 27	8 27	21 30	12 1	55	26	55	24
27	28	8 16	8 59	8 54	20 21	3	58	25	56	24
28	22 32	7 53	8 31	9 22	18 17	12 5	17 1	26 23	5 57	14 25

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1882

New Moon March 19th in ♓ 28° 47′

Longitude of the Planets

D	☉	☿	☿	☽	♄	♅	♂	♆	♇	☊
	° ♓′	° ♓′	° ♒′	° ♌′	° ♉′	° ♉′	° ♑′	° ♍′	° ♉′	° ♑′
1	10 50	12 56	26R58	2 28	8 5	20 12	0 52	16R46	14 10	4 7
2	11 50	14 11	26 21	14 20	10	20	1 9	44	11	4
3	12 50	15 26	25 51	26 12	16	29	1 25	41	12	1
4	13 50	16 41	25 28	8 ♍ 5	21	39	1 43	38	13	3 58
5	14 50	17 56	25 12	20 1	27	48	2 0	36	14	54
6	15 50	19 10	25 2	2 ♎ 0	32	57	2 18	33	16	51
7	16 50	20 25	24 59	14 4	8 38	21 7	2 37	16 31	14 17	3 48
8	17 50	21 40	25D 2	26 15	44	17	2 56	28	18	45
9	18 50	22 55	25 12	8 ♏ 35	49	26	3 15	25	20	42
10	19 50	24 10	25 27	21 6	55	36	3 34	23	22	39
11	20 50	25 24	25 47	3 ♐ 53	9 1	46	3 54	20	23	35
12	21 49	26 39	26 13	16 58	7	56	4 15	17	25	32
13	22 49	27 54	26 43	0 ♑ 25	13	22 7	4 35	15	26	29
14	23 49	29 9	27 17	14 17	9 20	22 17	4 56	16 12	14 28	3 26
15	24 49	0 ♈ 23	27 56	28 35	26	27	♑ 17	10	30	23
16	25 48	1 38	28 39	13♒16	32	38	5 39	7	31	20
17	26 48	2 53	29 25	28 16	38	48	6 1	5	33	16
18	27 48	4 8	0 ♓ 15	13 ♓ 27	45	59	6 23	2	35	13
19	28 47	5 22	1 8	28 38	51	23 10	6 46	15 59	36	10
20	29 47	6 37	2 4	13 ♈ 38	58	21	7 9	57	38	7
21	0 ♈ 46	7 51	3 3	28 19	10 4	23 32	7 32	15 54	14 40	3 4
22	1 46	9 10	4 4	12 ♉ 34	11	43	7 55	52	41	1
23	2 45	10 21	5 9	26 20	17	54	8 19	49	43	2 57
24	3 45	11 35	6 15	9 ♊ 38	24	24 6	8 43	47	45	54
25	4 44	12 50	7 24	22 30	31	17	9 7	43	47	51
26	5 44	14 4	8 35	5 ♋ 0	38	29	9 31	42	49	48
27	6 43	15 19	9 48	17 14	44	40	9 56	40	51	45
28	7 42	16 33	11 3	29 15	10 51	24 52	10 21	15 37	14 52	2 42
29	8 42	17 47	12 20	11♌10	58	25 4	10 46	35	53	38
30	9 41	19 2	13 39	23 1	11 5	15	11 12	33	55	35
31	10 40	20 16	15 0	4 ♍ 53	11 12	25 27	11 37	15 30	14 58	2 32

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1882

Full Moon March 4th in ♍ 13° 50′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	S	S	N	N	N	N	N	N
1	22 36	7 30	8 2	9 47	15 27	12 7	17 3	26 22	5 58	14 25
2	40	7 8	7 33	10 9	12 1	9	6	21	59	25
3	44	6 45	7 4	10 31	8 8	11	9	19	6 1	25
4	48	6 22	6 35	10 54	3 55	13	11	18	2	26
5	52	5 58	6 5	11 10	0 S26	15	14	16	3	26
6	56	5 35	5 35	11 27	4 49	17	17	15	4	27
7	23 0	5 12	5 6	11 44	9 1	12 19	17 19	26 13	6 5	14 28
8	4	4 49	4 36	11 54	12 55	21	22	12	6	28
9	8	4 25	4 6	12 4	16 18	23	25	10	7	29
10	12	4 2	3 36	12 14	19 0	25	27	8	8	30
11	16	3 38	3 5	12 18	20 49	27	30	7	9	30
12	20	3 15	2 35	12 22	21 33	29	33	5	10	31
13	24	2 51	2 5	12 25	21 4	31	36	3	11	31
14	23 28	2 27	1 34	12 23	19 19	12 33	17 39	26 1	12	14 32
15	31	2 4	1 4	12 21	16 20	35	41	25 59	13	32
16	35	1 40	0 34	12 18	12 16	37	44	57	14	33
17	39	1 16	0 4	12 11	7 21	39	46	55	15	33
18	43	0 52	0 N27	12 3	1 56	41	49	52	16	34
19	47	0 29	0 58	11 55	3 N35	44	53	50	17	35
20	51	0 5	1 28	11 42	8 51	46	56	48	18	35
21	23 55	0 N19	1 59	11 29	13 29	12 48	17 59	25 45	19	14 35
22	59	0 42	2 30	11 16	17 11	51	18 2	43	20	36
23	0 3	1 6	3 0	10 58	19 47	53	5	41	20	36
24	7	1 30	3 30	10 41	21 11	55	8	38	21	37
25	11	1 53	4 1	10 24	21 24	57	11	35	22	37
26	15	2 17	4 31	10 2	20 32	59	14	32	23	38
27	19	2 40	5 1	9 40	18 42	13 1	17	29	24	38
28	0 23	3 4	5 32	9 18	16 5	13 4	18 20	25 26	25	14 39
29	27	3 27	6 1	8 51	12 49	6	23	23	26	40
30	31	4 50	6 31	8 25	9 5	8	28	20	27	41
31	0 35	4 14	7 1	7 59	4 59	13 11	18 29	25 17	0 27	14 41

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1882

Eclipse of Sun May 17th in ♉ 26° 26′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♃	♆	♇	☊
	° ♉′	° ♉′	° ♉′	° ♏′	° ♉′	° ♊′	° ♌′	° ♍′	° ♉′	° ♐′
1	10 58	28 29	10 3	19 30	15 3	2 7	26 23	14R36	16 4	0 54
2	11 56	29 43	12 12	1 ♎57	11	20	26 54	35	6	50
3	12 55	0♊56	14 22	14 38	18	34	27 25	34	8	47
4	13 53	2 10	16 32	27 32	26	48	27 56	33	11	44
5	14 51	3 23	18 42	10 ♐39	34	3 1	28 27	32	13	40
6	15 49	4 37	20 52	24 0	41	15	28 58	32	15	37
7	16 47	5 50	23 1	7 ♑33	15 49	3 29	29 30	14 31	16 17	0 34
8	17 45	7 3	25 9	21 19	57	42	0♌ 1	30	19	31
9	18 43	8 17	27 17	5 ♒15	16 5	56	0 33	29	21	28
10	19 41	9 30	29 23	19 22	12	4 10	1 4	29	24	25
11	20 39	10 43	1♊27	3 ♓37	20	24	1 36	28	26	21
12	21 36	11 57	3 30	17 57	28	38	2 8	28	28	18
13	22 34	13 10	5 30	2 ♈20	35	52	2 40	27	31	15
14	23 32	14 23	7 28	16 40	16 43	5 6	3 12	14 27	16 33	0 12
15	24 30	15 36	9 24	0 ♉55	51	19	3 45	26	36	9
16	25 28	16 50	11 16	14 59	58	33	4 17	26	38	6
17	26 26	18 3	13 6	28 48	17 6	47	4 49	26	40	2
18	27 23	19 16	14 54	12♊20	14	6 1	5 22	25	42	29 59
19	28 21	20 29	16 38	25 32	21	15	5 54	25	44	♎56
20	29 19	21 42	18 19	8 ♌25	29	29	6 27	25	46	53
21	0♊17	22 55	19 57	21 0	17 37	6 43	7 0	14 25	16 48	29 50
22	1 14	24 8	21 32	3 ♋19	44	57	7 32	25	51	47
23	2 12	25 21	23 3	15 25	52	7 11	8 6	D25	54	43
24	3 10	26 34	24 32	27 23	59	25	8 39	25	56	40
25	4 7	27 47	25 57	9 ♎17	18 7	39	9 12	25	58	37
26	5 5	29 0	27 19	21 11	14	53	9 45	26	17 0	34
27	6 2	0♌13	28 37	3 ♏10	22	8 7	10 18	26	2	31
28	7 0	1 25	29 52	15 18	18 29	8 21	10 52	14 26	17 4	29 28
29	7 57	2 38	1♌ 4	27 39	37	35	11 25	27	6	24
30	8 55	3 51	2 12	10♎16	44	49	11 59	27	8	21
31	9 52	5 4	3 16	23 11	18 52	9 3	12 32	14 27	17 10	29 18

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1882

Full Moon May 3rd in ♏ 12° 55′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		N	N	N	S	N	N	N	N	N
1	2 37	15 8	20 2	14 33	10 46	14 23	20 0	22 43	6 48	15 1
2	41	15 26	20 20	15 22	14 28	25	3	36	48	1
3	45	15 43	20 38	16 14	17 33	27	6	30	48	1
4	49	16 1	20 56	17 1	19 49	30	9	23	49	2
5	53	16 18	21 12	17 46	21 4	32	12	15	49	2
6	56	16 35	21 28	18 31	21 9	34	15	8	49	3
7	3 0	16 52	21 45	19 16	20 0	14 36	20 17	22 1	6 50	15 4
8	4	17 8	22 0	19 55	17 41	38	20	21 53	50	4
9	8	17 24	22 14	20 44	14 18	40	22	45	50	5
10	12	17 40	22 28	21 14	10 5	43	25	38	51	6
11	16	17 56	22 41	21 47	5 17	45	28	30	51	7
12	20	18 11	22 54	22 20	0 9	47	30	22	51	8
13	24	18 26	23 6	22 52	5 N 0	50	33	14	51	8
14	3 28	18 40	23 17	23 16	9 54	14 52	20 36	21 5	6 51	15 9
15	32	18 54	23 28	23 40	14 11	54	38	20 57	51	9
16	36	19 8	23 38	24 6	17 38	56	40	49	51	10
17	40	19 22	23 46	24 23	19 59	58	43	40	51	10
18	44	19 35	23 54	24 40	21 8	15 0	45	51	51	11
19	48	19 48	24 3	24 58	21 4	3	48	23	51	12
20	52	20 1	24 10	25 7	19 53	5	51	13	51	12
21	3 56	20 13	24 17	25 17	17 44	15 7	20 53	20 4	6 51	15 13
22	4 0	20 25	24 23	25 27	14 49	9	55	19 56	51	14
23	3	20 37	24 27	25 30	11 19	11	58	46	51	14
24	7	20 48	24 31	25 34	7 25	13	21 0	37	51	15
25	11	20 59	24 36	25 38	3 16	15	3	28	51	16
26	15	21 10	24 38	25 36	1 s 1	17	6	18	51	16
27	19	21 20	24 40	25 34	5 18	19	8	8	51	16
28	4 23	21 30	24 43	25 32	9 26	15 21	21 10	18 58	6 51	15 17
29	27	21 39	24 43	25 25	13 16	23	12	48	51	17
30	31	21 48	24 43	25 19	16 35	25	14	38	51	18
31	4 35	21 57	24 43	25 13	19 10	15 27	21 16	18 28	6 50	15 19

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1882

New Moon June 15th in ♊ 24° 13′

Longitude of the Planets

D	☉	♀	♂	♃	♄	♅	♆	♇	♄	☊
	° ♊′	° ♋′	° ♋′	° ♐′	° ♑′	° ♊′	° ♎′	° ♑′	° ♑′	° ♏′
1	10 50	6 16	4 17	6 24	18 59	9 17	13 6	14 28	17 12	29 15
2	11 47	7 29	5 14	19. 55	19 6	31	13 39	29	14	12
3	12 45	8 41	6 8	3 ♒42	14	45	14 13	29	16	9
4	13 42	9 54	6 57	17 42	21	59	14 47	30	19	6
5	14 39	11 7	7 42	1 ♓52	28	10 13	15 21	31	20	2
6	15 37	12 19	8 24	16 7	35	27	15 55	31	22	59
7	16 34	13 32	9 1	0 ♈25	19 42	10 41	16 29	14 32	17 25	28 56
8	17 31	14 44	9 34	14 41	50	55	17 3	33	27	52
9	18 29	15 56	10 3	28 53	57	11 9	17 37	34	29	49
10	19 26	17 9	10 27	12 ♉58	20 4	23	18 12	35	31	46
11	20 24	18 21	10 47	26 56	11	37	18 46	36	33	43
12	21 21	19 33	11 2	10 ♊43	18	51	19 21	37	35	40
13	22 18	20 46	11 14	24 20	25	12 5	19 55	38	37	37
14	23 15	21 58	11 20	7 ♋44	20 32	12 19	20 30	14 40	17 39	28 33
15	24 13	23 10	11 22	20 55	39	33	21 4	41	40	30
16	25 10	24 22	11R19	3 ♌52	46	46	21 39	42	42	27
17	26 7	25 34	11 12	16 35	52	13 0	22 14	43	44	24
18	27 5	26 46	11 1	29 3	59	14	22 48	45	46	21
19	28 2	27 58	10 45	11♌18	21 6	28	23 23	46	48	18
20	28 59	29 10	10 26	23 23	13	41	23 58	48	50	14
21	29 56	0♌22	10 3	5 ♍20	21 19	13 55	24 33	14 49	17 51	28 11
22	0♋54	1 34	9 36	17 13	26	14 9	25 8	51	53	8
23	1 51	2 46	9 7	29 6	32	22	25 43	53	55	5
24	2 48	3 58	8 35	11♎ 4	39	36	26 19	54	57	2
25	3 45	5 10	8 2	23 12	45	50	26 54	56	59	27 59
26	4 43	6 21	7 27	5 ♏34	52	15 3	27 29	58	18 0	56
27	5 40	7 33	6 51	18 15	58	17	28 5	15 0	1	52
28	6 30	8 45	6 15	1 ♐18	22 4	15 30	28 40	15 2	18 3	27 49
29	7 34	9 56	5 40	14 44	10	44	29 15	3	5	46
30	8 31	11 8	5 5	28 34	22 16	15 57	29 51	15 5	18 6	27 43

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1882

Full Moon June 1st in ♐ 10° 50′

Declination of the Planets

D	S T	☉ N	♀ N	♂ N	☽ S	♃ N	♅ N	♄ N	♆ N	♇ N
1	4 39	22 5	24 42	25 4	20 47	15 29	21 19	18 18	6 50	15 19
2	43	13	39	52	21 15	31	21	9	50	19
3	47	20	36	41	20 27	33	23	17 58	50	20
4	51	28	33	24 30	18 24	35	25	46	49	21
5	55	34	28	15	15 13	37	27	35	49	21
6	59	41	23	2	11 8	39	29	25	49	22
7	5 3	22 47	24 18	23 49	6 25	15 41	21 31	17 14	6 48	15 23
8	7	52	10	34	1 21	43	33	5	48	23
9	11	57	3	18	3 N46	45	35	16 54	48	24
10	14	23 2	23 57	3	8 39	46	37	41	47	25
11	18	6	48	22 47	13 2	47	39	29	46	25
12	22	10	39	30	16 40	49	41	18	45	26
13	26	14	30	14	19 20	51	43	6	45	27
14	5 30	23 17	23 19	21 59	20 53	15 53	21 45	15 55	6 44	15 27
15	34	20	8	41	21 15	55	47	43	44	28
16	38	22	22 57	25	20 27	57	49	31	43	29
17	42	24	44	9	18 38	58	51	19	43	29
18	46	25	31	20 53	15 57	16 0	53	7	43	29
19	50	26	18	38	12 38	2	54	14 55	42	30
20	54	27	3	14	8 50	4	55	42	42	30
21	5 58	23 27	21 48	20 10	4 44	16 5	21 57	14 30	6 41	15 30
22	6 2	27	33	19 56	0 29	7	59	18	40	31
23	6	26	16	45	3 S47	9	22 0	6	40	31
24	10	25	0	33	7 57	10	2	13 53	39	31
25	14	24	20 44	21	11 52	11	4	40	38	32
26	18	22	25	12	15 22	12	6	27	38	32
27	21	20	7	4	18 14	14	7	14	37	32
28	6 25	23 17	19 49	18 55	20 15	16 16	22 9	13 1	6 36	15 33
29	29	14	29	53	21 12	17	10	12 48	36	33
30	6 33	23 11	19 9	18 51	20 55	16 18	22 12	12 35	6 36	15 33

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1882

New Moon July 15th in ♋ 22° 50′

Longitude of the Planets

D	☉	☿	☿	☽	♄	♅	♂	♆	♇	☊
	° ♋′	° ♌′	° ♋′	° ♈′	° ♉′	° ♊′	° ♍′	° ♍′	° ♉′	° ♍′
1	9 29	12 19	4 R33	12 45	22 23	16 10	0 27	15 7	18 8	27 40
2	10 26	13 31	4 2	27 12	29	24	1 2	10	9	36
3	11 23	14 42	3 34	11♒50	35	37	1 38	12	11	33
4	12 20	15 53	3 10	26 30	40	50	2 14	14	13	30
5	13 17	17 4	2 49	11♓ 7	46	17 4	2 49	16	14	27
6	14 14	18 16	2 32	25 35	52	17	3 25	18	16	24
7	15 12	19 27	2 20	9 ♈49	22 58	17 30	4 1	15 21	18 17	27 21
8	16 9	20 38	2 12	23 48	23 4	43	4 37	23	19	17
9	17 6	21 49	2 10	7 ♉31	9	56	5 13	25	20	14
10	18 3	23 0	2 D12	21 0	15	18 9	5 49	28	21	11
11	19 1	24 11	2 20	4 ♊14	20	22	6 26	30	22	8
12	19 58	25 22	2 33	17 16	26	35	7 2	33	24	5
13	20 55	26 33	2 51	0 ♋ 6	31	48	7 38	35	25	2
14	21 52	27 43	3 15	12 45	23 35	19 1	8 14	15 38	18 26	26 58
15	22 50	28 54	3 44	25 12	41	13	8 51	40	28	55
16	23 47	0♍ 5	4 19	7 ♌30	46	26	9 27	43	29	26 52
17	24 44	1 15	4 59	19 38	51	39	10 4	46	30	49
18	25 41	2 26	5 45	1 ♍39	56	51	10 40	48	31	46
19	26 39	3 36	6 36	13 33	24 1	20 4	11 17	51	32	43
20	27 36	4 46	7 32	25 24	6	16	11 53	54	33	39
21	28 33	5 57	8 33	7 ♎15	24 11	20 28	12 30	15 57	18 34	26 36
22	29 31	7 7	9 40	19 11	16	41	13 7	16 0	35	33
23	0♌28	8 17	10 51	1 ♏16	20	53	13 44	2	36	30
24	1 25	9 27	12 8	13 36	25	21 5	14 21	5	37	27
25	2 22	10 37	13 39	26 15	29	17	14 58	8	38	24
26	3 20	11 47	14 54	9 ♐18	33	29	15 35	11	38	20
27	4 17	12 57	16 25	22 49	38	41	16 12	14	40	17
28	5 15	14 7	17 59	6 ♑47	24 42	21 53	16 49	16 17	18 41	26 14
29	6 12	15 16	19 38	21 12	46	22 5	17 26	20	42	10
30	7 9	16 26	21 20	5 ♒59	50	17	18 3	24	43	7
31	8 7	17 35	23 7	20 59	24 54	22 28	18 40	16 27	18 43	26 4

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1882

Full Moon July 1st in ♑ 9° 29′

Full Moon July 30th in ♒ 7° 9′

Declination of the Planets

D	S T	☉ N	☿ N	☿ N	☽ S	♄ N	♃ N	♂ N	♅ N	♆ N
1	6 37	23 7	18 49	18 41	19 18	16 20	22 13	12 22	6 35	15 34
2	41	3	18 28	41	16 26	21	14	9	34	34
3	45	22 58	18 7	40	12 31	22	16	11 55	33	35
4	49	53	17 46	39	7 51	24	17	42	31	36
5	53	47	17 24	42	2 45	25	18	30	30	36
6	57	41	17 1	45	2 N28	27	19	15	29	36
7	7 1	22 35	16 38	18 48	7 28	16 28	22 21	11 1	6 28	15 37
8	5	29	16 14	55	11 59	29	23	10 47	27	37
9	9	21	15 50	19 2	15 48	30	24	33	26	37
10	13	14	15 26	9	18 41	32	25	20	25	38
11	17	6	15 1	19	20 31	33	26	5	24	38
12	21	21 58	14 36	28	21 13	35	27	9 51	23	38
13	25	49	14 11	38	20 47	36	29	37	22	39
14	7 29	21 40	13 45	19 50	19 18	16 37	22 30	9 24	6 21	15 39
15	32	31	13 19	20 1	16 55	38	31	9	20	39
16	36	21	12 53	13	13 49	39	32	8 55	19	39
17	40	11	12 26	24	10 10	40	33	40	18	39
18	44	1	11 59	36	6 10	41	34	26	17	39
19	48	20 50	11 32	48	1 58	42	35	11	16	40
20	52	39	11 3	59	2 S18	43	36	7 57	15	40
21	7 56	20 28	10 36	21 10	6 29	16 44	22 37	7 42	6 14	15 40
22	8 0	16	10 8	20	10 26	45	38	27	13	41
23	4	4	9 39	28	14 2	46	39	12	12	41
24	8	19 51	9 11	36	17 6	47	39	6 57	11	41
25	12	38	8 43	44	19 26	48	40	43	9	41
26	16	25	8 15	47	20 50	49	41	28	8	41
27	20	12	7 45	50	21 5	50	42	13	7	41
28	8 24	18 58	7 15	21 54	20 4	16 51	22 43	5 58	6 6	15 42
29	28	44	6 44	51	17 45	52	44	43	5	42
30	32	30	6 15	48	14 14	52	44	28	4	42
31	8 36	18 15	5 46	21 45	9 46	16 53	22 45	5 13	6 2	15 42

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1882

New Moon August 13th in ♌ 20° 34'

Longitude of the Planets

D	☉	☿	♀	☽	♄	♃	♂	♅	♆	♇
	° ♌ ′	° ♍ ′	° ♋ ′	° ♈ ′	° ♉ ′	° ♊ ′	♑ ♍ ′	° ♍ ′	° ♉ ′	° ♍ ′
1	9 4	18 45	24 56	6 4	24 58	22 40	19 17	16 30	18 43	26 1
2	10 1	19 54	26 48	21 3	25 1	51	19 55	33	44	58
3	10 59	21 3	28 43	5 ♈ 48	5	23 3	20 32	36	44	55
4	11 56	22 13	0♌40	20 13	9	14	21 10	40	45	25 52
5	12 54	23 22	2 40	4 ♉ 16	12	25	21 47	43	46	48
6	13 51	24 31	4 40	17 57	15	36	22 25	46	46	45
7	14 49	25 39	6 42	1 ♊ 17	25 19	23 48	23 2	16 49	18 47	25 42
8	15 46	26 48	8 45	14 18	22	59	23 40	53	47	39
9	16 44	27 57	10 48	27 4	25	24 9	24 18	56	47	36
10	17 42	29 5	12 51	9 ♋ 37	28	20	24 55	17 0	48	33
11	18 39	0♎14	14 55	22 0	31	31	25 33	3	48	29
12	19 37	1 22	16 58	4 ♌ 14	34	42	26 11	6	48	26
13	20 34	2 30	19 0	16 21	36	52	26 49	10	49	23
14	21 32	3 39	21 2	28 22	25 39	25 3	27 27	17 13	18 49	25 20
15	22 30	4 47	23 3	10♍17	41	13	28 5	17	49	17
16	23 28	5 55	25 3	22 8	44	23	28 43	20	50	14
17	24 25	7 2	27 2	3 ♎ 58	46	33	29 21	24	50	10
18	25 23	8 10	28 59	15 48	48	43	29 59	28	50	7
19	26 21	9 18	0♍56	27 43	51	53	0♎38	31	50	4
20	27 19	10 25	2 51	9 ♏ 47	53	26 3	1 16	35	50	1
21	28 16	11 32	4 45	22 4	25 54	26 13	1 54	17 38	18 50	25 58
22	29 14	12 39	6 37	4 ♐ 40	56	22	2 33	42	51	24 55
23	0♍12	13 46	8 29	17 39	58	32	3 11	46	51	51
24	1 10	14 53	10 19	1 ♑ 5	26 0	41	3 50	49	51	48
25	2 8	16 0	12 7	15 1	1	50	4 28	53	R50	45
26	3 6	17 7	13 55	29 27	2	59	5 7	57	50	42
27	4 4	18 13	15 41	14♒19	4	27 8	5 46	18 0	50	39
28	5 2	19 19	17 25	29 29	26 5	27 17	6 24	18 4	18 50	24 36
29	6 0	20 25	19 9	14♓47	6	26	7 3	8	50	32
30	6 58	21 31	20 51	0 ♈ 2	7	34	7 42	11	50	29
31	7 56	22 37	22 32	15 4	26 8	27 43	8 21	18 15	18 49	24 26

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EPHEMERIS OF THE PLANETS' PLACES.

Calculated for Mean Noon at Greenwich

August, 1882

Full Moon August 28th in ♐ 5° 2′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ S	♄ N	♃ N	♂ N	♅ N	♆ N
1	8 39	18 0	5 16	21 37	4 40	16 54	22 46	4 57	6 1	15 43
2	43	17 45	4 46	21 24	0 N40	54	46	4 43	59	43
3	47	29	4 16	21 11	5 53	55	46	4 27	58	43
4	51	13	3 46	20 58	10 41	56	47	4 12	5 57	43
5	55	16 57	3 16	20 30	14 45	56	48	3 57	56	43
6	59	41	2 45	20 17	17 55	57	48	3 41	54	43
7	9 3	24	2 14	19 55	20 1	16 58	22 49	3 25	5 53	15 43
8	7	7	1 43	19 27	20 59	59	49	3 10	51	43
9	11	15 56	1 13	18 58	20 51	59	50	2 56	50	43
10	15	32	0 43	18 30	19 40	17 0	51	2 39	49	43
11	19	14	0 12	17 57	17 33	0	51	2 24	48	43
12	23	14 56	0 s21	17 22	14 41	0	51	2 8	46	43
13	27	38	0 50	16 47	11 14	1	52	1 52	45	44
14	9 31	20	1 20	16 10	7 22	17 1	22 52	1 36	5 45	15 44
15	35	1	1 51	15 30	3 15	1	52	1 20	41	44
16	39	13 42	2 22	14 51	0 s59	2	53	1 5	40	44
17	43	23	2 53	14 8	5 9	2	53	0 49	38	44
18	47	4	3 1	13 27	9 9	2	53	0 33	37	44
19	50	12 44	3 54	12 44	12 48	3	54	0 17	36	44
20	54	25	4 25	12 0	15 59	3	54	0 1	34	44
21	9 58	5	4 55	11 15	18 31	17 3	22 54	0 s14	5 33	15 44
22	10 2	11 45	5 25	10 31	20 13	4	55	0 30	32	43
23	6	24	5 55	9 46	20 55	4	55	0 46	30	43
24	10	4	6 25	9 0	20 27	4	55	1 2	29	43
25	14	10 43	6 55	8 14	18 45	4	56	1 18	28	43
26	18	22	7 24	7 29	15 49	4	56	1 33	26	43
27	22	1	7 54	6 41	11 49	4	56	1 49	25	43
28	10 26	9 40	8 24	5 56	6 59	17 5	22 57	2 5	5 24	15 43
29	30	19	8 53	5 12	1 40	5	57	2 21	22	43
30	34	8 57	9 21	4 25	3 N44	5	57	2 38	21	43
31	10 38	8 36	9 52	3 38	8 50	17 5	22 58	2 53	5 20	15 42

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1882

New Moon September 12th in ♍ 19° 35′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♍′	° ♎′	° ♍′	° ♈′	° ♉′	° ♊′	° ♎′	° ♍′	° ♉′	° ♏′
1	8 54	23 42	24 11	29 44	26 8	27 51	9 0	18 19	18R49	24 23
2	9 52	24 48	25 50	13 ♉ 57	9	28 0	9 39	23	49	20
3	10 50	25 53	27 27	27 44	10	8	10 18	26	49	16
4	11 48	26 58	29 3	11 ♊ 5	10	16	10 57	30	48	13
5	12 47	28 3	0♎38	24 4	10	23	11 36	34	47	10
6	13 45	29 8	2 11	6 ♋43	11	31	12 15	38	47	7
7	14 43	0♏12	3 44	19 7	26 11	28 39	12 54	18 41	18 46	24 4
8	15 42	1 16	5 15	1 ♌20	11	46	13 34	45	45	1
9	16 40	2 20	6 45	13 25	R11	53	14 13	49	45	23 57
10	17 38	3 24	8 14	25 23	10	29 0	14 53	53	44	54
11	18 37	4 28	9 42	7 ♍17	10	7	15 32	57	43	51
12	19 35	5 31	11 9	19 9	10	14	16 12	19 0	43	48
13	20 34	6 34	12 34	1 ♎ 0	9	21	16 51	4	42	45
14	21 32	7 37	13 58	12 51	26 8	29 27	17 31	19 8	18 41	23 42
15	22 31	8 40	15 21	24 45	8	34	18 11	12	41	38
16	23 29	9 42	16 43	6 ♏43	26 7	40	18 50	16	40	35
17	24 28	10 44	18 3	18 50	6	46	19 30	19	39	32
18	25 26	11 46	19 22	1 ♐ 9	5	52	20 10	23	39	29
19	26 25	12 47	20 39	13 44	4	57	20 50	27	38	26
20	27 24	13 48	21 55	26 40	2	0 ♋3	21 30	31	37	23
21	28 23	14 49	23 10	10♑ 0	26 1	0 8	22 10	19 34	18 36	23 19
22	29 21	15 50	24 23	23 47	25 59	14	22 50	38	35	16
23	0♎20	16 50	25 34	8 ♒ 3	58	19	23 30	42	34	13
24	1 19	17 50	26 43	22 45	56	23	24 10	46	33	10
25	2 18	18 49	27 51	7 ♓48	54	28	24 51	49	32	7
26	3 17	19 49	28 56	23 3	52	33	25 31	53	31	4
27	4 15	20 47	29 59	8 ♈20	50	37	26 11	57	30	0
28	5 14	21 46	1♏ 0	23 27	25 48	0 41	26 52	20 0	18 29	22 57
29	6 13	22 43	1 58	8 ♉17	46	45	27 32	4	28	54
30	7 12	23 41	2 54	22 41	25 44	0 49	28 13	20 8	18 27	22 50

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1882

Full Moon September 27th in ♈ 4° 15′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		N	S	N	N	N	N	S	N	N
1	10 42	8 14	10 21	2 52	13 18	17 5	22 58	3 9	5 18	15 42
2	46	7 52	10 50	2 7	16 51	5	58	3 25	16	42
3	50	30	11 19	1 22	19 18	5	58	3 41	14	42
4	54	8	11 47	0 37	20 36	5	58	3 57	13	42
5	57	6 46	12 15	0 s 8	20 45	5	58	4 13	12	42
6	11 1	23	12 43	0 52	19 49	5	58	4 29	10	42
7	11 5	6 1	13 10	1 36	17 57	17 4	22 58	4 44	5 9	15 41
8	9	5 38	13 37	2 19	15 18	4	58	5 0	7	41
9	13	16	14 4	3 2	12 2	4	58	5 16	5	41
10	17	4 53	14 31	3 44	8 19	4	59	5 32	4	41
11	21	30	14 58	4 26	4 18	4	59	5 48	3	41
12	25	7	15 26	5 7	0 S	4	59	6 4	1	41
13	29	3 44	15 50	5 48	4 s 2	3	59	6 19	0	40
14	11 33	3 21	16 15	6 28	8 3	17 3	22 59	6 35	4 59	15 40
15	37	2 58	16 40	7 8	11 46	3	59	6 51	57	40
16	41	35	17 5	7 47	15 3	2	59	7 7	55	39
17	45	12	17 30	8 25	17 43	1	59	7 23	54	39
18	49	1 49	17 54	9 2	19 36	1	59	7 38	52	39
19	53	25	18 18	9 39	20 35	0	59	7 53	51	39
20	57	2	18 41	10 14	20 30	0	59	8 9	50	39
21	12 1	0 39	19 4	10 49	19 17	17 0	22 59	8 25	4 48	15 39
22	4	15	19 27	11 24	16 54	16 59	59	8 40	47	38
23	8	s 8	19 49	11 56	13 28	58	59	8 56	46	38
24	12	32	20 11	12 28	9 6	58	59	9 11	44	38
25	16	55	20 32	13 0	4 5	57	59	9 26	43	37
26	20 1	18	20 53	13 29	1 N15	56	59	9 42	42	37
27	24	42	21 14	13 58	6 32	56	59	9 57	40	37
28	12 28	2 5	21 34	14 26	11 21	16 55	22 59	10 12	4 39	15 36
29	32	29	21 54	14 51	15 23	54	59	10 27	37	35
30	12 36	2 52	22 13	15 15	18 20	16 54	22 59	10 42	4 35	15 35

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1882

New Moon October 12th in ♎ 19° 3′

Longitude of the Planets

D	☉	☿	♂	♃	♄	♅	♆	♇	☊
	° ♎′	° ♏′	° ♏′	° ♊′	° ♑′	° ♍′	° ♐′	° ♑′	° ♏′
1	8 11	24 38	3 46	6 38	25R41	0 53	28 53	20 11	18R25	22 47
2	9 10	25 35	4 35	20 7	39	56	29 34	15	24	44
3	10 10	26 31	5 21	3 ♋10	36	59	0♏14	19	22	41
4	11 9	27 26	6 3	15 51	34	1 2	0 55	22	21	38
5	12 8	28 21	6 40	28 14	31	5	1 36	26	20	35
6	13 7	29 16	7 13	10♌23	28	8	2 17	29	18	31
7	14 6	0♐10	7 41	22 23	25 25	1 11	2 58	20 33	18 17	22 28
8	15 6	1 2	8 3	4 ♍17	22	12 3	39	36	16	25
9	16 5	1 56	8 19	16 8	19	15	4 20	40	14	22
10	17 4	2 49	8 29	27 59	15	17	5 1	43	13	19
11	18 4	3 40	8 31	9 ♎51	12	19	5 42	47	12	16
12	19 3	4 31	8 R27	21 48	9	20	6 23	50	10	12
13	20 3	5 22	8 14	3 ♏49	5	22	7 5	54	9	9
14	21 2	6 11	7 53	15 58	25 2	1 23	7 46	21 57	18 8	22 6
15	22 2	7 0	7 24	28 16	24 58	24	8 27	1	6	3
16	23 1	7 48	6 46	10♐45	54	24	9 9	4	5	0
17	24 1	8 35	5 59	23 28	51	25	9 50	7	4	57
18	25 1	9 22	5 5	6 ♑27	47	25	10 32	11	2	53
19	26 0	10 7	4 3	19 46	43	25	11 13	14	0	50
20	27 0	10 52	2 55	3 ♒27	39	R25	11 55	17	17 58	47
21	28 0	11 36	1 43	17 29	24 35	1 25	12 37	21 20	17 56	21 44
22	28 59	12 18	0 28	1 ♓54	31	25	13 18	24	55	41
23	29 59	13 0	29♎9	16 37	27	24	14 0	27	54	38
24	0♏59	13 40	27 58	1 ♈33	22	23	14 42	30	52	34
25	1 59	14 20	26 58	16 33	18	22	15 24	33	51	31
26	2 59	14 58	25 44	1 ♉30	14	21	16 6	36	50	28
27	3 59	15 35	24 48	16 15	9	19	16 48	39	48	25
28	4 59	16 10	24 1	0 ♊41	24 5	18	17 30	21 42	17 46	21 22
29	5 59	16 45	23 26	14 43	1	16	18 12	45	45	19
30	6 59	17 18	23 1	28 19	23 56	14	18 54	48	43	15
31	7 59	17 49	22 48	11♋30	23 51	1 12	19 37	21 51	17 41	21 12

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1882

Full Moon October 26th in ♉ 2° 59′

Declination of the Planets

D	S T	☉	☿	♀	☽	♄	♅	♂	♃	♆
		S	S	S	N	N	N	S	N	N
1	12 40	3 15	22 32	15 39	20 5	16 53	22 59	10 57	4 34	15 34
2	44	38	22 50	15 59	36	52	59	11 12	32	34
3	48	4 2	23 8	16 19	19 58	52	59	27	30	34
4	52	25	23 25	16 38	18 19	51	59	42	29	33
5	56	48	23 42	16 51	15 52	50	59	57	28	33
6	13 0	5 11	23 59	17 4	12 45	49	59	12	26	33
7	13 4	5 34	24 15	17 17	9 10	16 48	22 59	12 26	4 25	15 32
8	8	57	24 30	17 23	5 15	47	59	41	24	31
9	12	6 20	24 45	17 28	1 9	47	59	55	22	31
10	15	43	24 59	17 33	3 s 0	46	51	13 9	21	30
11	19	7 6	25 13	17 28	7 3	45	59	24	20	30
12	23	28	25 26	17 23	10 50	44	59	38	18	30
13	27	51	25 39	17 18	14 14	43	59	52	17	29
14	13 31	8 13	25 51	17 1	17 2	16 42	22 59	14 6	4 16	15 29
15	35	35	26 3	16 44	19 7	41	59	20	14	29
16	39	57	26 14	16 26	20 17	40	23 0	34	13	28
17	43	9 19	26 25	15 56	20 27	39	0	48	12	28
18	47	41	26 35	15 25	19 32	38	0	15 2	10	28
19	51	10 3	26 45	14 54	17 32	37	0	15	9	27
20	55	25	26 54	14 12	14 31	36	0	29	8	26
21	13 59	10 46	27 2	13 30	10 36	16 35	23 0	15 42	4 6	16 26
22	14 3	11 7	27 10	12 48	5 59	34	0	55	5	25
23	7	29	27 17	12 3	0 56	33	0	16 8	4	25
24	11	50	27 24	11 17	4 N16	32	0	21	2	25
25	15	12 10	27 31	10 32	9 14	31	0	34	1	24
26	19	31	27 37	9 53	13 37	30	0	47	0	24
27	22	51	27 42	9 15	17 5	28	0	0	59	24
28	14 26	13 11	27 47	8 37	19 24	16 27	23 0	17 12	3 58	15 23
29	30	31	27 51	8 14	20 26	26	0	24		23
30	34	51	27 54	7 51	20 12	25	0	36		23
31	14 38	14 11	27 57	7 29	18 52	16 24	23 0	17 48	3 54	15 22

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1882

Eclipse of Sun November 10th in ♏ 18° 1′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♏′	° ♐′	° ♑′	° ♋′	° ♌′	° ♍′	° ♋′	° ♍′	° ♌′	° ♏′
1	8 59	18 19	22 47	24 16	23R47	1 R 9	20 19	21 54	17R39	21 9
2	9 59	18 48	22 57	6 ♌43	42	6	21 1	57	37	6
3	10 59	19 15	23 17	18 54	37	4	21 44	22 0	35	2
4	11 59	19 40	23 47	0 ♍54	33	1	22 26	2	34	20 59
5	12 59	20 3	24 26	12 46	28	0 57	23 9	5	33	56
6	14 0	20 25	25 13	24 37	23	54	23 51	8	31	53
7	15 0	20 45	26 6	6 ♒28	23 18	0 50	24 34	22 10	17 29	20 50
8	16 0	21 3	27 7	18 24	14	46	25 17	13	27	47
9	17 0	21 19	28 12	0 ♍28	9	42	26 0	16	25	43
10	18 1	21 33	29 22	12 40	4	38	26 42	18	24	40
11	19 1	21 45	0♍36	25 4	22 59	34	27 25	21	23	37
12	20 2	21 54	1 54	7 ♐39	54	29	28 8	23	21	34
13	21 2	22 2	3 15	20 27	49	25	28 51	25	19	31
14	22 3	22 7	4 38	3 ♈29	22 44	0 20	29 34	22 28	17 18	20 28
15	23 3	22 10	6 3	16 44	39	15	0 ♐19	30	16	24
16	24 4	22 10	7 30	0 ♒13	35	9	1 1	32	14	21
17	25 4	22R 8	8 58	13 56	30	4	1 44	35	12	18
18	26 5	22 4	10 28	27 53	25	29 ♊59	2 27	37	10	15
19	27 5	21 57	11 58	12♓ 3	20	53	3 10	39	9	12
20	28 6	21 48	13 29	26 24	15	47	3 54	41	8	9
21	29 7	21 36	15 1	10♈54	22 10	29 41	4 37	22 43	17 6	20 5
22	0 ♐ 7	21 21	16 33	25 27	5	35	5 21	45	4	2
23	1 8	21 5	18 6	9 ♉59	1	29 29	6 4	47	2	19 59
24	2 9	20 46	19 39	24 24	21 56	22	6 48	49	0	56
25	3 9	20 24	21 12	8 ♊36	51	16	7 31	51	16 59	53
26	4 10	20 1	22 46	22 32	46	9	8 15	52	58	50
27	5 11	19 35	24 20	6 ♋ 6	42	2	8 59	54	56	46
28	6 11	19 7	25 53	19 19	21 37	28 55	9 43	22 56	16 54	19 43
29	7 12	18 38	27 27	2 ♌ 9	33	48	10 26	58	53	40
30	8 13	18 7	29 1	14 40	21 28	28 41	11 10	22 59	16 51	19 37

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1882

Full Moon November 25th in ♊ 3° 9′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		S	S	S	N	N	N	S	N	N
1	14 42	14 30	28 0	7 17	16 36	16 23	23 0	18 0	3 54	15 21
2	46	14 49	2	7 17	13 38	21	0	12	53	20
3	50	15 8	3	7 17	10 8	20	0	24	52	20
4	54	15 27	4	7 17	6 18	19	1	35	51	19
5	58	15 45	4	7 31	2 15	18	1	46	50	19
6	15 2	16 3	4	7 45	1 s53	17	1	58	49	19
7	15 6	16 21	28 3	7 59	5 57	16 16	23 1	19 9	3 48	15 18
8	10	16 38	1	8 22	9 50	15	1	20	47	18
9	14	16 56	27 59	8 45	13 21	15	1	31	46	18
10	18	17 13	57	9 9	16 21	14	1	41	45	17
11	22	17 29	53	9 38	18 38	13	1	52	44	17
12	26	17 46	49	10 7	20 4	11	1	20 2	43	17
13	30	18 2	45	10 37	20 28	9	2	12	42	16
14	15 33	18 17	27 40	11 9	19 48	16 8	23 2	20 22	3 41	15 15
15	37	18 33	34	11 41	18 2	6	2	32	39	15
16	41	18 48	28	12 14	15 16	5	2	41	38	14
17	45	19 3	20	12 47	11 37	4	2	51	37	13
18	49	19 17	12	13 21	7 17	3	2	21 0	36	13
19	53	19 31	4	13 55	2 29	2	2	9	35	13
20	57	19 45	26 54	14 28	2 N31	1	2	18	34	12
21	16 1	19 58	26 44	15 1	7 25	16 0	23 2	21 27	3 33	15 12
22	5	20 11	34	15 34	11 56	15 58	2	35	32	11
23	9	20 24	21	16 6	15 44	57	2	43	31	11
24	13	20 36	8	17 38	18 32	56	2	51	31	11
25	17	20 48	25 56	17 10	20 8	55	2	59	30	10
26	21	21 0	42	17 40	20 27	54	2	22 7	29	10
27	25	21 11	27	18 10	19 33	53	2	14	29	10
28	16 29	21 21	25 12	18 40	17 36	15 52	23 3	22 21	3 28	15 9
29	33	21 32	24 56	18 38	14 40	51	3	28	28	9
30	16 37	21 41	24 39	18 36	11 26	15 50	23 3	22 35	3 28	15 9

Fellowship Press, Oceanside, Calif.

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1882

New Moon December 10th in ♐ 18° 22′

Longitude of the Planets

D	☉	☿	☽	♄	♅	♂	♃	♆	♇
	° ♐′	° ♐′	° ♐′	° ♑′	° ♈′	° ♐′	° ♍′	° ♑′	° ♏′
1	9 14	17R34	0 35	26 54	21R23	28R34	11 54	23 1	16R50	19 34
2	10 15	17 1	2 8	8 ♍55	19	26	12 38	2	48	31
3	11 16	16 26	3 42	20 48	14	19	13 22	4	46	29
4	12 17	15 50	5 16	2 ♎39	10	11	14 6	5	45	24
5	13 18	15 14	6 50	14 31	6	4	14 51	6	44	21
6	14 18	14 38	8 24	26 29	1	27 56	15 35	8	42	18
7	15 19	14 1	9 58	8 ♏38	20 57	27 48	16 19	23 9	16 41	19 15
8	16 20	13 25	11 32	21 0	53	40	17 3	10	40	12
9	17 21	12 50	13 6	3 ♐38	49	32	17 48	11	38	8
10	18 22	12 15	14 40	16 34	45	24	18 32	12	36	5
11	19 24	11 40	16 14	29 46	41	16	19 17	13	34	2
12	20 25	11 8	17 48	13♑13	37	8	20 1	14	33	18 59
13	21 26	10 36	19 22	26 54	33	0	20 46	15	32	56
14	22 27	10 6	20 57	10♒46	20 29	26 52	21 30	23 16	16 31	18 53
15	23 28	9 38	22 31	24 45	26	44	22 15	17	30	49
16	24 29	9 11	24 6	8 ♓50	22	36	23 0	17	29	46
17	25 30	8 47	25 40	22 58	19	28	23 45	18	28	43
18	26 31	8 25	27 15	7 ♈ 7	15	19	24 29	19	26	39
19	27 32	8 5	28 50	21 15	12	11	25 14	18	25	36
20	28 33	7 47	0♑26	5 ♉21	8	3	25 59	20	24	33
21	29 34	7 32	2 1	19 24	20 5	25 55	26 44	23 20	16 23	18 30
22	0♑35	7 19	3 37	3 ♊20	2	47	27 29	20	22	27
23	1 37	7 9	5 13	17 8	19 59	39	28 14	21	21	24
24	2 38	7 1	6 49	0 ♋44	56	31	28 59	21	19	20
25	3 39	6 56	8 25	14 5	53	23	29 44	21	18	17
26	4 40	6 53	10 2	27 9	51	15	0♑30	21	17	14
27	5 41	6 ☽53	11 39	9 ♌56	48	7	1 15	21	16	11
28	6 42	6 55	13 16	22 26	19 45	24 59	2 0	23 22	16 15	18 8
29	7 43	7 0	14 53	4 ♍40	43	51	2 45	22	14	5
30	8 44	7 7	16 31	16 42	41	43	3 31	R 21	14	1
31	9 46	7 16	18 9	28 35	19 38	24 36	4 16	23 21	16 13	17 58

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1882

Full Moon December 24th in ♋ 2° 38′

Declination of the Planets

D	S T	☉	♀	♂	☽	♃	♅	♂	♆	♇
		S	S	S	N	N	N	S	N	N
1	16 40	21 51	24 22	20 3	7 38	15 49	23 3	22 42	3 28	15 8
2	44	22 0	24 4	20 28	3 36	48	3	48	28	8
3	48	9	23 45	20 53	0 s32	47	3	54	28	8
4	52	17	23 27	21 18	4 38	46	3	23 0	27	7
5	56	25	23 8	21 40	8 34	45	3	6	26	6
6	17 0	32	22 48	22 2	12 13	44	3	11	26	6
7	17 4	22 39	22 28	22 24	15 25	15 43	23 3	23 16	3 25	15 5
8	8	45	22 8	22 43	17 58	42	3	21	25	5
9	12	51	21 48	23 2	19 43	41	3	26	25	5
10	16	57	21 29	23 20	20 29	40	3	31	24	4
11	20	23 2	21 10	23 35	20 8	39	3	35	24	4
12	24	6	20 50	23 50	18 39	39	3	39	24	4
13	28	11	20 31	24 5	16 6	38	3	43	23	3
14	17 32	23 14	20 13	24 17	12 36	15 37	23 3	23 46	3 23	15 3
15	36	17	19 55	24 28	8 23	36	3	49	23	3
16	40	20	19 38	24 39	3 42	35	2	52	22	2
17	44	23	19 22	24 47	1 N13	34	2	55	22	2
18	47	24	19 7	24 54	6 5	34	2	58	22	2
19	51	26	18 52	25 1	10 37	33	2	24 0	22	1
20	55	27	18 39	25 5	14 34	32	2	1	22	1
21	17 59	23 27	18 26	25 8	17 39	15 32	23 2	23 3	3 22	15 1
22	18 3	27	18 13	25 11	19 40	31	2	5	21	0
23	7	27	18 3	25 10	20 20	31	2	6	21	0
24	11	26	17 53	25 9	20 5	31	2	7	21	0
25	15	24	17 43	25 8	18 33	30	2	8	21	0
26	19	22	17 35	25 2	16 5	29	2	8	21	0
27	23	20	17 28	24 56	12 53	29	2	8	21	0
28	18 27	23 17	17 21	24 51	9 12	15 28	23 2	24 9	3 21	14 59
29	31	14	17 16	24 41	5 12	28	2	8	21	59
30	35	10	17 12	24 31	1 3	28	2	8	21	59
31	18 39	23 6	17 8	24 20	3 s 5	15 27	23 1	24 7	3 21	14 58

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.8730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	35	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5692	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	82
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	10	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	56	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06
59	68	46	46	65	02	53	18	95	83	81	88	03

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Oceanside, California.

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1883

New Moon January 9th in ♑ 18° 56′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♃	♂	♅	♆	♇
	° ♑′	° ♐′	° ♑′	° ♒′	° ♉′	° ♊′	° ♑′	° ♍′	° ♉′	° ♍′
1	10 47	7 27	19 47	10 25	19R36	24R28	5 1	23R21	16R12	17 55
2	11 48	7 41	21 25	22 16	34	21	5 47	21	12	52
3	12 49	7 54	23 3	4 ♍14	32	13	6 32	21	11	49
4	13 50	8 14	24 41	16 24	30	6	7 18	20	10	46
5	14 51	8 34	26 20	28 51	29	23 59	8 4	20	10	42
6	15 53	8 56	27 58	11 ♐37	27	52	8 49	19	9	39
7	16 54	9 20	29 36	24 47	19 26	23 45	9 35	23 19	16 8	17 36
8	17 55	9 45	1♒13	8 ♑19	24	38	10 21	18	8	33
9	18 56	10 12	2 50	22 12	23	31	11 7	18	7	30
10	19 57	10 41	4 26	6 ♒22	22	25	11 52	17	6	27
11	20 58	11 11	6 2	20 43	21	18	12 38	16	6	24
12	22 0	11 43	7 36	5 ♓ 9	20	12	13 24	16	5	20
13	23 1	12 17	9 9	19 35	19 19	6	14 10	15	4	17
14	24 2	12 52	10 40	3 ♈55	18	23 0	14 56	23 14	16 4	17 14
15	25 3	13 28	12 9	18 6	17	22 54	15 42	13	4	11
16	26 4	14 5	13 35	2 ♉ 8	17	48	16 28	12	3	8
17	27 5	14 44	14 58	15 59	16	43	17 14	11	3	5
18	28 6	15 24	16 18	29 40	16	37	18 0	10	3	2
19	29 7	16 5	17 33	13♊11	16	32	18 46	9	2	16 58
20	0♒ 8	16 47	18 42	26 32	16	27	19 32	7	2	55
21	1 9	17 31	19 46	9 ♋43	19 16	22 22	20 19	23 6	16 2	16 52
22	2 10	18 15	20 43	22 43	♑16	17	21 5	5	2	16 49
23	3 11	19 0	21 33	5 ♌31	16	13	21 51	3	2	45
24	4 12	19 47	22 14	18 6	17	9	22 37	2	2	42
25	5 13	20 34	22 46	0 ♍28	17	4	23 24	1	2	39
26	6 14	21 22	23 8	12 38	17	0	24 10	22 59	2	35
27	7 15	22 11	23 19	24 37	18	21 57	24 56	58	2	32
28	8 16	23 1	23 20	6 ♎29	19 19	21 53	25 43	22 56	16D 2	16 29
29	9 17	23 51	23R 9	18 17	20	49	26 29	54	2	26
30	10 18	24 43	22 46	0 ♍ 7	21	46	27 16	53	2	23
31	11 19	25 35	22 13	12 2	19 23	21 43	28 2	22 51	16 2	16 20

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1883

Full Moon January 23rd in ♌ 3° 11′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♅	♂	♆	♆
		S	S	S	S	N	N	S	N	N
1	18 43	23 1	17 5	24 7	7 5	15 27	23 1	24 6	3 37	14 58
2	47	22 56	3	23 52	10 50	27	1	4	37	58
3	51	50	2	23 35	14 11	27	1	2	36	58
4	55	44	1	23 18	16 59	26	0	1	35	58
5	58	37	1	22 56	19 4	26	0	23 59	35	58
6	19 2	30	2	22 35	20 15	26	0	57	34	58
7	19 6	22 23	17 3	22 14	20 22	15 26	23 0	23 54	3 33	14 57
8	10	15	4	21 54	19 21	26	0	51	33	57
9	14	7	7	21 25	17 9	25	0	48	33	57
10	18	21 58	10	20 57	13 54	25	22 59	44	3 32	57
11	22	49	13	20 38	9 48	25	59	40	32	57
12	26	39	17	20 18	5 7	25	59	36	32	57
13	30	29	21	19 58	0 9	25	59	32	31	57
14	19 34	21 19	17 26	19 16	4 N 48	15 26	22 59	23 28	3 31	14 57
15	38	8	31	18 33	9 27	26	59	23	31	57
16	42	20 57	36	17 50	13 32	26	58	18	30	57
17	46	45	41	17 16	16 48	26	58	13	30	57
18	50	33	46	16 42	19 5	26	58	7	29	57
19	54	21	52	16 8	20 15	26	58	1	28	57
20	58	8	57	15 36	20 16	26	58	22 55	28	57
21	20 2	19 55	18 3	15 3	19 9	15 27	22 58	22 49	3 28	14 57
22	5	41	9	14 30	17 3	27	58	42	28	56
23	9	27	15	14 2	14 9	27	58	35	28	56
24	13	13	22	13 33	10 39	28	58	27	28	56
25	17	18 58	27	13 4	6 45	28	57	20	27	56
26	21	43	33	12 44	2 39	29	57	12	27	56
27	25	28	37	12 24	1 S 30	29	57	4	27	56
28	20 29	18 12	18 44	12 4	5 3	15 30	22 57	21 57	3 27	14 57
29	33	17 56	49	11 55	9 22	30	57	48	27	57
30	37	40	54	11 46	12 51	31	57	40	27	57
31	20 41	17 23	19 0	11 37	15 49	15 31	22 57	21 31	3 26	14 57

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1883

New Moon February 7th in ♒ 18° 25′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♒′	° ♑′	° ♒′	° ♏′	° ♉′	° ♊′	° ♈′	° ♓′	° ♉′	° ♏′
1	12 20	26 28	21R30	24 10	19 24	21R40	28 49	22R49	16 2	16 16
2	13 21	27 21	20 38	6 ♑35	25	38	29 35	22 47	3	13
3	14 21	28 15	19 38	19 22	27	35	0♒22	46	3	10
4	15 22	29 10	18 32	2 ♊35	28	33	1 9	44	3	7
5	16 23	0 ♊ 5	17 22	16 16	30	31	1 55	42	4	4
6	17 24	1 1	16 10	0 ♒24	32	29	2 42	40	4	1
7	18 25	1 58	14 59	14 54	19 34	21 27	3 29	22 38	16 4	15 57
8	19 25	2 54	13 49	29 41	36	26	4 15	36	5	54
9	20 26	3 52	12 43	14♓34	38	25	5 2	34	6	51
10	21 27	4 50	11 42	29 26	40	24	5 49	32	6	48
11	22 28	5 48	10 47	14♈ 9	43	23	6 36	30	7	45
12	23 28	6 47	9 58	28 36	45	22	7 22	27	8	42
13	24 29	7 46	9 18	12♉46	48	22	8 9	25	8	38
14	25 29	8 46	8 45	26 36	19 51	21 21	8 56	22 23	16 9	15 35
15	26 30	9 46	8 20	10♊ 9	53	21	9 43	21	10	32
16	27 31	10 46	8 3	23 27	56	☽ 21	10 30	18	10	29
17	28 31	11 47	7 53	6 ♋30	59	22	11 17	16	11	26
18	29 32	12 48	7 50	19 20	20 2	22	12 3	14	12	23
19	0♓32	13 50	7 ☽55	2 ♌ 0	6	23	12 50	11	12	19
20	1 32	14 52	8 6	14 29	9	24	13 37	9	13	16
21	2 33	15 54	8 22	26 49	20 12	21 25	14 24	22 7	16 14	15 13
22	3 33	16 56	8 45	8 ♍59	16	27	15 11	4	15	10
23	4 34	17 59	9 13	21 1	19	28	15 58	2	16	7
24	5 34	19 2	9 45	2 ♎56	23	30	16 45	21 59	17	4
25	6 34	20 6	10 22	14 46	27	32	17 32	57	18	0
26	7 34	21 9	11 4	26 33	31	34	18 19	54	19	14 57
27	8 35	22 13	11 49	8 ♏22	35	36	19 6	52	20	54
28	9 35	23 18	12 38	20 17	20 39	21 39	19 53	21 49	16 21	14 51

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1883

Full Moon February 22nd in ♍ 3° 33'

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♃	♂	♅	♆
		S	S	S	S	N	N	S	N	N
1	20 45	17 7	19 5	11 37	18 9	15 32	22 57	21 22	3 35	14 57
2	49	16 49	10	11 45	19 42	33	57	21 12	36	57
3	53	16 32	15	11 53	20 17	34	57	21 2	37	57
4	57	16 14	19	12 0	19 47	34	57	20 53	37	57
5	21 1	15 56	22	12 16	18 8	35	57	20 42	38	57
6	5	15 38	26	12 32	15 22	36	57	20 32	39	57
7	21 9	15 19	19 30	12 49	11 35	5 36	22 57	20 22	3 39	14 58
8	13	15 0	33	13 9	7 3	37	57	20 11	40	58
9	16	14 41	36	13 30	2 2	38	57	20 0	41	58
10	20	14 22	39	13 51	3 ♑ 5	39	58	19 49	42	59
11	24	14 2	41	14 11	7 58	40	58	19 38	43	59
12	28	13 42	43	14 31	12 19	41	58	19 27	44	59
13	32	13 22	45	14 52	15 52	42	58	19 15	45	15 0
14	21 36	13 2	19 45	15 8	18 25	15 43	22 58	19 3	3 46	0
15	40	12 41	46	15 26	19 51	44	58	18 51	47	0
16	44	12 20	46	15 43	20 9	45	59	18 38	48	0
17	48	12 0	45	15 56	19 21	46	59	18 26	49	0
18	52	11 39	44	16 9	17 34	47	59	18 13	50	0
19	56	11 17	44	16 22	14 57	48	59	18 0	50	1
20	22 0	10 56	42	16 30	11 41	49	59	17 47	51	1
21	22 4	10 34	19 40	16 38	7 58	15 50	22 59	17 33	3 52	1
22	8	10 12	38	16 46	3 59	52	23 0	17 19	53	1
23	12	9 50	35	16 49	0 ♐ 8	53	0	17 5	54	1
24	16	9 28	32	16 52	4 11	54	0	16 51	55	1
25	20	9 6	28	16 56	8 4	55	1	16 38	56	2
26	23	8 44	23	16 55	11 37	56	1	16 23	57	2
27	27	8 21	18	16 54	14 43	57	1	16 8	58	2
28	22 31	7 59	19 13	16 52	17 14	15 59	23 2	15 54	3 59	3

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1883

New Moon March 9th in ♓ 18° 38′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇
	° ♓ ′	° ♍ ′	° ♒ ′	° ♐ ′	° ♉ ′	° ♊ ′	° ♒ ′	° ♑ ′	° ♏ ′
1	10 35	24 22	13 30	2 22	20 43	21 42	20 40	21R47	16 22	14 48
2	11 35	25 27	14 25	14 44	47	44	21 27	44	23	45
3	12 35	26 32	15 23	27 27	51	48	22 14	42	24	42
4	13 35	27 37	16 24	10♍36	56	51	23 1	39	25	38
5	14 35	28 42	17 28	24 14	21 0	54	23 48	36	26	35
6	15 36	29 48	18 33	8 ♒22	5	58	24 35	34	27	32
7	16 36	0♒54	19 41	22 57	21 9	22 2	25 22	21 31	16 29	14 29
8	17 36	2 0	20 52	7 ♓53	14	6	26 9	29	30	26
9	18 35	3 6	22 4	23 1	19	10	26 56	26	31	23
10	19 35	4 12	23 18	8♈13	24	14	27 44	23	33	19
11	20 35	5 19	24 34	23 16	29	19	28 31	21	35	16
12	21 35	6 25	25 51	8 ♉4	34	24	29 18	18	37	13
13	22 35	7 32	27 11	22 30	39	28	0 ♓5	16	38	10
14	23 35	8 39	28 32	6 ♊33	21 44	22 34	0 52	21 13	16 39	14 7
15	24 34	9 46	29 54	20 11	50	39	1 39	10	40	4
16	25 34	10 54	1♓18	3 ♋28	55	44	2 26	8	42	0
17	26 34	12 1	2 43	16 24	22 1	50	3 13	5	44	13 57
18	27 34	13 9	4 10	29 5	6	55	4 0	3	46	54
19	28 33	14 16	5 39	11♌31	12	23 1	4 47	0	47	51
20	29 33	15 24	7 8	23 47	17	7	5 34	20 57	49	48
21	0♈32	16 32	8 40	5 ♍53	22 23	23 14	6 21	20 55	16 51	13 45
22	1 32	17 40	10 12	17 53	29	20	7 8	52	52	41
23	2 31	18 48	11 46	29 47	35	26	7 55	50	54	38
24	3 31	19 57	13 21	11♎37	41	33	8 42	47	56	35
25	4 30	21 5	14 58	23 25	47	40	9 29	45	59	32
26	5 29	22 14	16 36	5 ♏14	53	47	10 16	42	17 0	29
27	6 29	23 22	18 15	17 6	59	54	11 3	40	1	26
28	7 28	24 31	19 56	29 4	23 5	24 1	11 50	20 37	17 3	13 22
29	8 27	25 40	21 37	11♐13	11	9	12 37	35	5	19
30	9 26	26 49	23 21	23 35	17	16	13 24	32	7	16
31	10 26	27 58	25 6	5 ♑17	23 24	24 24	14 11	20 30	17 8	13 12

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1883

Full Moon March 23rd in ♎ 2° 31′

Declination of the Planets

D	S T	☉	☿	♀	☽	♄	♅	♂	♃	♆
		S	S	S	S	N	N	S	N	N
1	22 36	7 36	19 7	16 47	19 1	16 0	23 2	15 40	4 0	15 4
2	40	7 13	19 0	16 39	19 56	2	2	25	1	4
3	44	6 50	18 53	16 32	19 52	4	2	9	2	4
4	48	6 27	18 46	16 25	18 45	5	3	14 54	3	5
5	52	6 4	18 37	16 16	16 32	6	3	38	4	5
6	56	5 41	18 28	16 8	13 17	7	3	23	5	6
7	22 59	5 18	18 20	16 0	9 8	16 9	23 4	14 8	4 6	15 7
8	23 3	4 54	18 10	15 40	4 20	10	4	13 52	7	7
9	7	4 31	18 0	15 21	0 N48	11	4	36	8	7
10	11	4 7	17 50	15 2	5 55	13	5	20	9	8
11	15	3 44	17 39	14 42	10 37	15	5	4	10	8
12	19	3 20	17 28	14 22	14 35	17	5	12 48	11	8
13	23	2 57	17 16	14 2	17 32	18	6	31	13	9
14	23 27	2 33	17 3	13 38	19 20	16 20	23 6	12 15	4 14	15 10
15	31	2 9	16 50	13 14	19 57	22	7	11 58	15	11
16	35	1 46	16 37	12 50	19 24	23	8	41	16	11
17	39	1 22	16 22	12 22	17 51	24	8	24	17	11
18	43	0 58	16 8	11 54	15 27	25	8	7	18	11
19	47	0 34	15 54	11 26	12 23	27	9	10 50	19	12
20	51	0 11	15 38	10 54	8 50	29	9	32	20	13
21	23 55	0 N13	15 22	10 22	4 58	16 31	23 9	10 15	4 21	15 14
22	59	0 37	15 6	9 51	0 57	32	11	9 58	22	14
23	0 3	1 0	14 49	9 15	3 S 5	34	11	39	23	14
24	6	1 24	14 32	8 40	6 59	36	12	22	24	14
25	10	1 48	14 15	8 5	10 37	37	12	5	25	13
26	14	2 11	13 56	7 26	13 49	39	12	8 46	26	15
27	18	2 35	13 38	6 47	16 28	41	13	29	27	15
28	0 22	2 58	13 20	6 9	18 26	16 43	23 13	8 12	4 28	15 16
29	26	3 21	13 0	5 26	19 34	45	14	7 54	29	17
30	30	3 45	12 40	4 44	19 48	47	15	36	31	18
31	0 34	4 8	12 21	4 2	19 2	16 48	23 15	7 18	4 31	15 18

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1883

New Moon April 7th in ♈ 17° 19′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♈′	° ♒′	° ♓′	° ♑′	° ♉′	° ♓′	° ♊′	° ♍′	° ♉′	° ♍′
1	11 25	29 7	26 52	19 21	23 30	24 32	14 58	20℞27	17 10	13 9
2	12 24	0♓17	28 40	2 ♒51	37	39	15 45	25	12	6
3	13 23	1 26	0♈29	16 49	43	48	16 31	23	14	3
4	14 22	2 36	2 19	1 ♓14	50	56	17 18	20	16	12 59
5	15 21	3 45	4 11	16 3	56	25 4	18 5	18	18	56
6	16 20	4 55	6 4	1 ♈ 9	24 3	12	18 52	16	20	53
7	17 19	6 4	7 59	16 23	24 10	25 21	19 39	20 13	17 22	12 50
8	18 18	7 14	9 55	1 ♉34	17	30	20 26	11	24	47
9	19 17	8 24	11 53	16 35	23	39	21 12	9	26	44
10	20 16	9 34	13 52	1 ♊15	30	48	21 59	7	28	40
11	21 15	10 44	15 52	15 32	37	57	22 46	5	30	37
12	22 13	11 54	17 54	29 22	44	26 6	23 33	3	32	34
13	23 12	13 4	19 57	12♋46	51	15	24 19	1	34	31
14	24 11	14 14	22 1	25 46	24 58	26 25	25 6	19 59	17 36	12 28
15	25 10	15 24	24 6	8 ♌25	25 5	34	25 53	57	38	25
16	26 8	16 35	26 12	20 47	12	44	26 39	55	41	21
17	27 7	17 45	28 19	2 ♍55	19	53	27 26	53	43	18
18	28 6	18 55	0♉26	14 54	27	27 3	28 12	51	45	15
19	29 4	20 6	2 34	26 47	34	13	28 59	49	47	12
20	0 ♉ 3	21 16	4 42	8 ♎36	41	23	29 45	47	49	9
21	1 1	22 27	6 49	20 25	25 48	27 33	0♈32	19 45	17 51	12 6
22	2 0	23 37	8 57	2 ♍15	56	44	1 18	44	54	2
23	2 58	24 48	11 3	14 9	26 3	54	2 4	42	56	11 59
24	3 56	25 59	13 8	26 8	10	28 4	2 51	40	58	56
25	4 55	27 10	15 12	8 ♐16	18	15	3 37	39	18 0	53
26	5 53	28 20	17 15	20 34	25	26	4 23	37	2	50
27	6 51	29 31	19 15	3 ♑ 4	33	36	5 10	36	4	47
28	7 50	0♈42	21 13	15 51	26 40	28 47	5 56	19 34	18 7	11 44
29	8 48	1 53	23 8	28 57	48	58	6 42	33	9	41
30	9 46	3 4	25 1	12♒23	26 55	29 9	7 28	19 31	18 11	11 37

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1883

Eclipse of Moon April 22nd in ♏ 2° 0′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♅	♃	♆	♇
		N	S	S	S	N	N	S	N	N
1	0 38	4 31	12 1	3 17	17 16	16 50	23 15	7 0	4 31	15 19
2	41	4 54	11 40	2 30	14 30	52	15	6 41	32	20
3	45	5 17	11 19	1 44	10 50	54	15	6 23	33	21
4	49	5 40	10 58	0 58	6 26	55	16	6 5	34	21
5	53	6 3	10 35	0 s 8	1 32	57	16	5 46	35	22
6	57	6 26	10 13	0 N42	3 N34	59	16	5 28	36	23
7	1 1	6 48	9 51	1 31	8 30	17 0	23 17	5 10	4 37	15 23
8	5	7 11	9 28	2 23	12 52	2	18	4 51	38	24
9	9	7 33	9 5	3 15	16 21	4	19	4 32	38	25
10	13	7 56	8 43	4 7	18 40	6	19	4 14	39	25
11	17	8 18	8 19	5 0	19 43	8	19	3 55	40	26
12	21	8 40	7 55	5 54	19 32	10	19	3 36	41	27
13	25	9 1	7 31	6 48	18 14	11	20	3 18	41	27
14	29	9 23	7 6	7 43	16 1	17 13	23 20	3 0	4 42	15 28
15	33	9 45	6 42	8 38	13 5	15	20	2 41	43	28
16	37	10 6	6 18	9 33	9 38	17	21	2 22	43	28
17	41	10 27	5 53	10 27	5 51	19	21	2 4	44	29
18	45	10 48	5 28	11 21	1 53	21	21	1 45	45	30
19	48	11 9	5 3	12 16	2 s 7	22	22	1 26	46	30
20	52	11 30	4 37	13 8	6 2	24	22	1 8	47	31
21	1 56	11 50	4 11	14 1	9 44	17 26	23 22	0 49	4 48	15 32
22	2 0	12 11	3 46	14 54	13 2	28	23	0 30	48	32
23	4	12 31	3 19	15 42	15 50	30	23	0 s11	49	33
24	8	12 50	2 53	16 31	17 58	32	23	0 N 7	50	34
25	12	13 10	2 27	17 20	19 19	33	24	0 25	50	34
26	16	13 30	2 0	18 3	19 46	35	24	0 44	51	35
27	20	13 49	1 34	18 46	19 15	37	24	1 3	52	35
28	2 24	14 8	1 8	19 29	17 45	17 39	23 25	1 21	4 52	15 35
29	28	14 27	0 41	20 6	15 19	41	25	1 39	53	36
30	2 32	14 45	0 15	20 44	12 1	17 42	23 25	1 58	4 53	15 37

Fellowship Press, Oceanside, Calif.

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1883

Eclipse of Sun May 6th in ♉ 15° 35′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♃	♆	♇
	° ♉ ′	° ♈ ′	° ♉ ′	° ♒ ′	° ♉ ′	° ♊ ′	° ♈ ′	° ♍ ′	° ♉ ′	° ♏ ′
1	10 44	4 15	26 51	26 11	27 3	29 20	8 14	19ℝ30	18 13	11 34
2	11 42	5 26	28 38	10♓22	10	31	9 1	29	15	31
3	12 41	6 37	0♊21	24 54	18	42	9 47	28	17	28
4	13 39	7 48	2 1	9 ♈43	26	54	10 33	26	20	24
5	14 37	9 0	3 37	24 43	33	0 ♋ 5	11 19	25	22	21
6	15 35	10 11	5 9	9 ♉46	41	17	12 5	24	24	18
7	16 33	11 22	6 38	24 43	27 49	0 28	12 51	19 23	18 27	11 15
8	17 31	12 33	8 3	9 ♊26	56	40	13 36	22	29	12
9	18 29	13 45	9 24	23 49	28 4	51	14 22	21	31	9
10	19 27	14 56	10 41	7 ♋47	12	1 3	15 8	20	34	5
11	20 25	16 7	11 54	21 19	19	15	15 54	19	36	2
12	21 23	17 19	13 3	4 ♌25	27	27	16 39	19	38	10 59
13	22 21	18 30	14 7	17 8	35	39	17 25	18	41	56
14	23 19	19 42	15 7	29 31	28 43	1 51	18 11	19 17	18 43	10 53
15	24 16	20 53	16 3	11♍39	50	2 3	18 56	16	45	50
16	25 14	22 5	16 55	23 35	58	15	19 42	16	47	46
17	26 12	23 16	17 42	5 ♎25	29 6	27	20 27	15	49	43
18	27 10	24 28	18 25	17 13	14	39	21 13	15	51	40
19	28 7	25 40	19 3	29 3	21	52	21 58	14	54	37
20	29 5	26 51	19 37	10♏59	29	3 4	22 43	14	56	34
21	0 ♊ 3	28 3	20 5	22 58	29 37	3 16	23 29	19 14	18 58	10 31
22	1 0	29 15	20 29	5 ♐ 9	45	29	24 14	13	19 1	27
23	1 58	0♉26	20 49	17 31	52	41	24 59	13	3	24
24	2 56	1 38	21 3	0 ♑ 5	0 ♊ 0	54	25 44	13	5	21
25	3 53	2 50	21 13	12 53	8	4 7	26 29	13	7	18
26	4 51	4 2	21 18	25 54	16	19	27 14	13	9	15
27	5 48	5 13	21 19	9 ♒10	23	32	27 59	13	11	12
28	6 46	6 25	21ℝ15	22 41	0 31	4 45	28 44	19D13	19 14	10 8
29	7 43	7 37	21 6	6 ♓27	39	58	29 29	13	16	5
30	8 41	8 49	20 54	20 29	47	5 10	0♉14	13	18	2
31	9 38	10 1	20 37	4 ♈45	0 54	5 23	0 59	19 13	19 20	9 59

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1883

Full Moon May 22nd in ♐ 1° 0′

Declination of the Planets

D	S T	☉ N	☿ N	♀ N	☽ S	♄ N	♅ N	♂ N	♆ N	♇ N
1	2 36	15 3	0 12	21 18	7 58	17 44	23 25	2 16	4 53	15 37
2	40	15 21	0 39	21 46	3 23	46	25	2 34	54	38
3	44	15 39	1 6	22 15	1 N30	48	25	2 53	55	39
4	48	15 57	1 33	22 44	6 25	50	26	3 12	55	39
5	52	16 14	2 0	23 5	10 59	52	26	3 30	56	40
6	56	16 31	2 29	23 27	14 53	54	26	3 48	56	40
7	3 0	16 48	2 54	23 49	17 46	17 55	23 26	4 6	4 56	15 40
8	3 4	17 4	3 21	24 3	19 24	57	26	4 24	57	41
9	8	17 20	3 48	24 17	19 44	59	26	4 42	57	42
10	12	17 36	4 15	24 31	18 49	18 0	26	5 0	57	42
11	16	17 52	4 41	24 39	16 51	2	26	5 18	58	43
12	20	18 7	5 8	24 47	14 4	4	26	5 36	58	44
13	24	18 22	5 35	24 55	10 41	6	26	5 54	58	45
14	3 28	18 37	6 2	24 57	6 56	18 8	23 26	6 11	4 58	15 46
15	31	18 51	6 28	24 59	2 59	10	26	6 29	58	47
16	35	19 5	6 54	25 1	1 S 3	11	26	6 47	58	47
17	39	19 19	7 20	24 58	5 0	13	26	7 4	59	48
18	43	19 32	7 46	24 55	8 46	15	26	7 21	59	49
19	47	19 45	8 13	24 52	12 12	16	25	7 39	59	49
20	51	19 58	8 38	24 44	15 9	18	25	7 56	59	50
21	3 55	20 10	9 4	24 36	17 30	18 20	23 25	8 13	4 59	15 51
22	59	20 22	9 30	24 28	19 4	21	25	8 30	59	51
23	4 3	20 34	9 55	24 16	19 46	23	25	8 47	59	52
24	7	20 45	10 20	24 4	19 30	25	25	9 4	59	52
25	11	20 56	10 46	23 53	18 14	26	24	9 21	59	52
26	15	21 7	11 10	23 38	16 0	28	24	9 37	59	53
27	19	21 17	11 35	23 23	12 55	30	24	9 53	59	54
28	4 23	21 27	12 0	23 8	9 6	18 31	23 23	10 10	4 59	15 54
29	27	21 37	12 23	22 50	4 45	33	23	10 26	59	55
30	31	21 46	12 47	22 33	0 3	35	23	10 42	59	56
31	4 35	21 55	13 11	22 16	4 N14	18 36	23 22	10 59	4 59	15 56

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1883

New Moon June 5th in ♊ 14° 26'

Longitude of the Planets

D	☉	☿	☿	☽	♄	♅	♂	♆	♅	☊
	° ♊′	° ♉′	° ♊′	° ♈′	° ♊′	° ♋′	° ♉′	° ♍′	° ♉′	° ♏′
1	10 36	11 13	20R17	19 13	1 2	5 36	1 43	19 13	19 22	9 55
2	11 33	12 25	19 54	3 ♉50	10	5 49	2 28	14	24	51
3	12 31	13 37	19 27	18 32	17	6 2	3 13	14	26	49
4	13 28	14 49	18 58	3 ♊11	25	6 15	3 57	14	29	46
5	14 26	16 1	18 27	17 42	33	6 28	4 42	15	31	43
6	15 23	17 13	17 55	1 ♋57	40	6 41	5 26	15	33	40
7	16 21	18 25	17 22	15 53	1 48	6 55	6 10	19 16	19 35	9 36
8	17 18	19 38	16 48	29 26	56	7 8	6 55	17	37	33
9	18 15	20 50	16 15	12♌35	2 3	7 21	7 39	17	39	30
10	19 13	22 2	15 42	25 20	11	7 34	8 23	18	41	27
11	20 10	23 14	15 11	7 ♍45	18	7 47	9 7	19	43	24
12	21 7	24 26	14 42	19 54	26	8 1	9 51	20	45	21
13	22 5	25 39	14 15	1 ♎50	33	8 14	10 35	21	47	17
14	23 2	26 51	13 51	13 41	2 41	8 27	11 19	19 21	19 49	9 14
15	23 59	28 3	13 30	25 29	48	8 41	12 3	22	51	11
16	24 57	29 15	13 13	7 ♏21	55	8 54	12 47	23	53	8
17	25 54	0♊28	13 0	19 20	3 3	9 7	13 31	25	55	5
18	26 51	1 40	12 50	1 ♐30	10	9 21	14 14	26	57	2
19	27 48	2 53	12 46	13 53	18	9 34	14 58	27	59	8 58
20	28 45	4 5	12 45	26 32	25	9 48	15 42	28	20 1	55
21	29 43	5 17	12D50	9 ♑26	3 32	10 1	16 25	19 29	20 3	8 52
22	0♋40	6 30	12 59	22 36	39	10 14	17 9	31	4	49
23	1 37	7 42	13 12	5 ♒59	47	10 28	17 52	32	6	46
24	2 34	8 55	13 31	19 34	54	10 41	18 35	34	8	43
25	3 32	10 7	13 54	3 ♓20	4 1	10 55	19 19	35	9	39
26	4 29	11 20	14 22	17 14	8	11 8	20 2	37	11	35
27	5 26	12 33	14 55	1 ♈16	15	11 22	20 45	38	13	32
28	6 23	13 45	15 32	15 24	4 22	11 36	21 28	19 40	20 15	8 29
29	7 20	14 58	16 14	29 36	29	11 49	22 11	42	17	26
30	8 18	16 11	17 0	13 ♉52	4 36	12 3	22 54	19 43	20 18	8 23

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1883

Full Moon June 20th in ♐ 28° 45'

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♅	♃	♆	♇
		N	N	N	N	N	N	N	N	N
1	4 38	22 8	13 35	21 57	9 20	18 36	23 21	11 15	4 58	15 56
2	42	11	13 57	21 37	13 26	39	21	11 30	58	57
3	46	19	14 20	21 18	16 42	40	20	11 46	58	57
4	50	26	14 43	20 59	18 52	42	20	12 2	58	58
5	54	33	15 4	20 40	19 47	44	19	12 17	58	58
6	58	39	15 26	20 21	19 24	46	18	12 32	57	58
7	5 2	22 45	15 48	20 3	17 50	18 47	23 18	12 48	4 57	15 59
8	6	51	16 8	19 46	15 18	49	17	13 2	57	16 0
9	10	56	16 29	19 29	12 4	51	16	13 17	57	1
10	14	23 1	16 50	19 12	8 21	52	16	13 32	56	1
11	17	5	17 9	18 58	4 23	53	15	13 46	56	1
12	21	9	17 28	18 45	0 18	54	14	14 1	56	2
13	25	13	17 48	18 32	3 s 43	56	14	14 16	56	2
14	5 29	23 16	18 6	18 23	7 34	18 57	23 13	14 30	4 56	16 3
15	33	19	18 24	18 14	11 7	58	12	14 44	56	4
16	37	21	18 42	18 6	14 15	19 0	12	14 58	55	4
17	41	23	18 58	18 3	16 49	1	11	15 11	54	4
18	45	26	19 15	18 0	18 40	2	10	15 25	54	5
19	49	26	19 32	17 57	19 40	4	9	15 39	53	5
20	53	27	19 47	17 59	19 42	5	8	15 52	52	6
21	5 57	23 27	20 2	18 1	18 44	19 6	23 7	16 5	4 52	16 7
22	6 1	27	20 17	18 3	16 45	8	7	16 18	51	7
23	5	27	20 30	18 10	13 51	9	6	16 30	50	7
24	9	26	20 44	18 17	10 10	10	5	16 43	50	7
25	13	24	20 58	18 25	5 55	12	4	16 56	49	8
26	17	23	21 10	18 36	1 18	13	3	17 8	48	8
27	21	20	21 22	18 47	3 N26	14	2	17 20	47	8
28	6 24	23 18	21 34	18 58	8 1	19 16	23 1	17 32	4 47	16 9
29	28	15	21 44	19 12	12 11	18	0	17 44	47	9
30	6 32	23 12	21 55	19 26	15 39	19 19	22 58	17 55	4 46	16 10

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1883

New Moon July 4th in ♋ 12° 6′

Longitude of the Planets

D	☉	☿	☿	☽	♄	♅	♂	♆	♇	☊
	°♋′	°♊′	°♊′	°♉′	°♊′	°♋′	°♉′	°♍′	°♉′	° ♏′
1	9 15	17 23	17 51	28 9	4 43	12 16	23 37	19 45	20 20	8 20
2	10 12	18 36	18 47	12♊23	50	12 30	24 20	47	21	17
3	11 9	19 49	19 46	26 32	56	12 43	25 2	49	22	14
4	12 6	21 2	20 50	10♋29	5 3	12 57	25 45	51	24	10
5	13 4	22 14	21 59	24 11	10	13 10	26 28	53	26	7
6	14 1	23 27	23 11	7 ♌34	17	13 24	27 10	55	28	4
7	14 58	24 40	24 28	20 37	5 23	13 37	27 52	19 57	20 29	8 1
8	15 55	25 53	25 48	3 ♍20	30	13 51	28 35	59	30	7 58
9	16 53	27 6	27 13	15 44	36	14 5	29 17	20 1	31	55
10	17 50	28 19	28 42	27 52	43	14 18	29 59	3	33	51
11	18 47	29 32	0♋14	9 ♎48	49	14 32	0♊41	5	34	48
12	19 44	0♋45	1 51	21 38	55	14 45	1 23	8	35	45
13	20 41	1 58	3 30	3 ♏27	6 2	14 59	2 5	10	37	42
14	21 39	3 11	5 14	15 20	6 8	15 12	2 47	20 12	20 38	7 39
15	22 36	4 24	7 1	27 23	14	15 26	3 29	15	39	36
16	23 33	5 37	8 51	9 ♐39	20	15 39	4 11	17	41	32
17	24 30	6 50	10 44	22 13	26	15 53	4 53	20	42	29
18	25 28	8 3	12 39	5 ♑ 6	32	16 6	5 34	22	43	26
19	26 25	9 17	14 37	18 20	38	16 19	6 16	25	45	23
20	27 22	10 30	16 38	1 ♒52	44	16 33	6 57	27	46	20
21	28 19	11 43	18 40	15 40	6 50	16 46	7 38	20 30	20 47	7 17
22	29 17	12 56	20 44	29 41	56	17 0	8 20	33	48	13
23	0♌14	14 10	22 48	13♓49	7 1	17 13	9 1	35	49	10
24	1 11	15 23	24 54	28 1	7	17 26	9 42	38	50	7
25	2 9	16 36	27 1	12 ♈14	13	17 40	10 23	41	51	4
26	3 6	17 50	29 8	26 24	18	17 53	11 4	44	52	1
27	4 3	19 3	1♌14	10 ♉31	24	18 6	11 45	47	53	6 58
28	5 1	20 17	3 21	24 33	7 29	18 19	12 26	20 49	20 54	6 54
29	5 58	21 30	5 27	8 ♊31	34	18 33	13 7	52	55	51
30	6 55	22 44	7 32	22 22	39	18 46	13 47	55	56	48
31	7 53	23 57	9 36	6 ♋ 5	7 45	18 59	14 28	20 58	20 56	6 45

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich
July, 1883

Full Moon July 20th in ♑ 27° 22′

Declination of the Planets

D	S T	☉ N	♀ N	♂ N	☽ N	♄ N	♃ N	♂ N	♅ N	♆ N
1	6 37	23 8	22 4	19 41	18 11	19 20	22 57	18 7	4 45	16 10
2	41	4	12	19 57	19 34	21	56	18	44	11
3	45	22 59	20	20 13	19 42	22	55	29	43	12
4	49	54	29	20 29	18 37	23	54	40	43	12
5	53	49	35	20 45	16 28	24	53	50	42	13
6	56	43	41	21 1	13 30	25	52	19 0	41	13
7	7 0	22 37	22 48	21 18	9 55	19 27	22 50	19 11	4 40	16 13
8	4	30	52	21 33	5 59	28	49	21	39	14
9	8	23	57	21 48	1 54	29	48	31	38	14
10	12	16	23 2	22 4	2s 11	30	46	41	38	14
11	16	8	4	22 16	6 8	31	45	50	37	15
12	20	0	6	22 28	9 49	32	44	59	36	15
13	24	21 51	9	22 41	13 6	33	42	20 9	35	15
14	7 28	21 43	23 10	22 48	15 52	19 34	22 41	20 17	4 34	16 15
15	32	33	11	22 55	17 59	35	40	26	33	15
16	36	24	11	23 3	19 19	36	38	35	32	15
17	40	14	9	23 4	19 44	37	36	43	31	15
18	44	3	7	23 5	19 8	38	34	51	30	16
19	48	20 53	6	23 7	17 31	39	33	21 0	29	16
20	52	42	3	23 0	14 53	40	31	7	28	16
21	7 56	20 30	22 59	22 54	11 24	19 41	22 29	21 14	4 27	16 16
22	8 0	19	55	22 48	7 14	41	28	22	26	17
23	4	7	50	22 33	3 38	42	27	29	25	17
24	7	19 54	45	22 19	2 N 8	43	26	36	24	17
25	11	41	39	22 5	6 48	44	24	43	22	18
26	15	28	32	21 42	11 4	45	22	49	21	18
27	19	15	24	21 20	14 42	46	20	56	20	18
28	8 23	19 1	22 16	20 58	17 27	19 46	22 19	22 3	4 19	16 18
29	27	18 47	7	20 29	19 8	47	17	9	17	18
30	31	33	21 57	20 0	19 40	47	15	15	16	18
31	8 35	18 18	21 47	19 32	19 0	19 48	22 13	22 20	4 15	16 19

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1883

New Moon August 3rd in ♌ 10° 45′

Longitude of the Planets

D	☉	☿	☿	☽	♄	♃	♂	♅	♆	♇
	° ♌ ′	° ♋ ′	° ♌ ′	° ♋	° ♊ ′	° ♋ ′	° ♊ ′	° ♍ ′	° ♑ ′	° ♏ ′
1	8 50	25 11	11 40	19 38	7 50	19 12	15 8	21 1	20 57	6 42
2	9 48	26 25	13 42	2 ♌ 59	55	19 25	15 49	4	58	39
3	10 45	27 38	15 43	16 5	8 0	19 38	16 29	7	59	36
4	11 43	28 52	17 42	28 54	4	19 51	17 9	11	59	32
5	12 40	0 ♌ 6	19 41	11♍28	9	20 4	17 49	14	59	29
6	13 38	1 19	21 37	23 46	14	20 17	18 29	17	21 0	26
7	14 35	2 33	23 33	5 ♎50	8 18	20 30	19 9	21 20	21 1	6 23
8	15 33	3 47	25 26	17 44	23	20 43	19 49	23	1	20
9	16 30	5 1	27 19	29 33	27	20 56	20 29	27	1	17
10	17 28	6 14	29 9	11♏21	32	21 8	21 8	30	2	13
11	18 25	7 28	0♍59	23 14	36	21 21	21 48	33	2	10
12	19 23	8 42	2 46	5 ♐17	40	21 34	22 28	36	3	7
13	20 21	9 56	4 33	17 35	44	21 47	23 7	40	4	3
14	21 18	11 10	6 17	0 ♑14	8 48	21 59	23 46	21 43	21 4	6 0
15	22 16	12 24	8 1	13 15	52	22 12	24 25	47	4	5 57
16	23 14	13 38	9 43	26 41	56	22 24	25 4	50	5	54
17	24 11	14 52	11 23	10♒30	9 0	22 37	25 43	53	5	51
18	25 9	16 6	13 2	24 40	3	22 49	26 22	57	5	48
19	26 7	17 20	14 39	9 ♓ 5	7	23 1	27 1	22 0	5	44
20	27 5	18 34	16 16	23 39	10	23 14	27 40	4	5	41
21	28 2	19 48	17 50	8 ♈15	9 14	23 26	28 19	22 7	21 5	5 38
22	29 0	21 2	19 24	22 47	17	23 38	28 57	11	6	35
23	29 58	22 17	20 56	7 ♉11	20	23 50	29 35	15	6	32
24	0♍56	23 31	22 26	21 24	23	24 2	0♋14	18	6	29
25	1 54	24 45	23 55	5 ♊24	26	24 14	52	22	6	25
26	2 52	25 59	25 23	19 12	29	24 26	1 30	25	6	22
27	3 50	27 14	26 49	2 ♋47	32	24 38	2 8	29	6	19
28	4 48	28 28	28 14	16 10	9 35	24 50	2 46	22 33	21R 6	5 16
29	5 46	29 42	29 38	29 20	37	25 1	3 24	36	6	13
30	6 44	0♍57	0♎59	12♌18	40	25 13	4 1	40	6	10
31	7 42	2 11	2 20	25 4	9 42	25 25	4 39	22 44	21 5	5 6

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1883

Full Moon August 18th in ♒ 25° 9′

Declination of the Planets

D	S T	☉ N	♀ N	♂ N	☽ N	♄ N	♅ N	♂ N	♅ N	♆ N
1	8 39	18 3	21 36	19 0	17 16	19 49	22 12	22 25	4 14	16 19
2	42	17 48	21 24	18 24	14 38	50	10′	30	13	19
3	46	17 33	21 12	17 48	11 19	51	8	35	12	19
4	50	17 17	21 0	17 13	7 31	51	6	40	10	19
5	54	17 1	20 46	16 33	3 29	52	4	45	9	19
6	58	16 44	20 32	15 54	0 s37	53	2	50	8	19
7	9 2	16 28	20 18	15 15	4 38	19 53	22 1	22 54	4 6	16 19
8	6	16 11	20 2	14 33	8 24	54	21 59	57	5	19
9	10	15 54	19 46	13 52	11 50	54	57	23 1	4	19
10	14	15 36	19 31	13 11	14 46	55	55	5	3	20
11	18	15 19	19 13	12 27	17 6	55	53	8	2	20
12	22	15 1	18 56	11 44	18 43	56	51	11	1	20
13	26	14 43	18 39	11 1	19 30	56	50	15	3 59	20
14	9 30	14 24	18 20	10 17	19 20	19 57	21 48	23 18	3 58	16 20
15	34	14 6	18 1	9 33	18 8	57	46	21	57	20
16	38	13 47	17 42	8 50	15 56	58	44	23	55	20
17	42	13 28	17 21	8 5	12 47	58	42	25	54	20
18	46	13 9	17 1	7 21	8 50	58	40	27	53	20
19	49	12 49	16 41	6 37	4 18	59	38	29	51	20
20	53	12 29	16 19	5 53	0 N32	59	36′	31	50	20
21	9 57	12 10	15 51	5 9	5 20	19 59	21 34	23 33	3 49	16 20
22	10 1	11 49	15 36	4 26	9 49	20 0	32	34	47	20
23	5	11 29	15 12	3 43	13 41	0	30	35	45	20
24	9	11 9	14 49	3 0	16 41	0	28	36	43	20
25	13	10 48	14 26	2 17	18 38	1	26	37	42	20
26	17	10 27	14 1	1 35	19 26	1	24	37	41	20
27	21	10 6	13 37	0 53	19 5	1	22	38	40	20
28	10 25	9 45	13 13	0 11	17 40	20 2	21 20	23 38	3 38	16 20
29	29	9 24	12 47	0 s30	15 21	2	18	38	36	20
30	33	9 3	12 22	1 10	12 17	2	16	38	34	20
31	10 37	8 41	11 57	1 51	8 42	20 3	21 14	23 38	3 33	16 19

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1883

New Moon September 1st in ♍ 8° 40′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♃	♂	♅	♆	☊
	° ♍′	° ♍′	° ♎′	° ♍′	° ♊′	° ♑′	° ♑′	° ♍′	° ♉′	° ♏
1	8 40	3 25	3 39	7 37	9 44	25 36	5 16	22 47	21R 5	5 3
2	9 38	4 40	4 56	19 57	47	25 48	5 54	51	5	0
3	10 36	5 54	6 11	2 ♎ 5	49	25 59	6 31	55	5	4 57
4	11 35	7 9	7 25	14 3	51	26 10	7 8	58	4	4 53
5	12 33	8 23	8 37	25 54	53	26 21	7 45	23 2	4	50
6	13 31	9 38	9 47	7 ♏ 41	54	26 33	8 22	6	4	47
7	14 29	10 52	10 55	19 28	9 56	26 44	8 59	23 10	21 3	4 44
8	15 28	12 7	12 1	1 ♐ 19	58	26 55	9 35	13	2	41
9	16 26	13 21	13 5	13 21	59	27 5	10 12	17	1	38
10	17 24	14 36	14 6	25 38	10 0	27 16	10 48	21	1	34
11	18 23	15 50	15 5	8 ♑ 14	2	27 27	11 24	25	0	31
12	19 21	17 5	16 1	21 15	3	27 37	12 1	29	0	28
13	20 19	18 20	16 55	4 ♒ 43	4	27 48	12 37	32	20 59	25
14	21 18	19 34	17 45	18 38	10 5	27 58	13 12	23 36	20 58	22
15	22 16	20 49	18 32	2 ♓ 59	6	28 9	13 48	40	57	19
16	23 15	22 4	19 15	17 40	6	28 19	14 24	44	57	15
17	24 14	23 18	19 55	2 ♈ 34	7	28 29	14 59	47	56	12
18	25 12	24 33	20 31	17 33	7	28 39	15 35	51	55	9
19	26 11	25 48	21 2	2 ♉ 28	8	28 49	16 10	55	55	6
20	27 9	27 2	21 28	17 12	8	28 59	16 45	59	54	3
21	28 8	28 17	21 49	1 ♊ 41	10 8	29 9	17 20	24 3	20 53	0
22	29 7	29 32	22 5	15 50	8	29 18	17 55	6	52	3 56
23	0 ♎ 6	0 ♎ 47	22 15	29 39	♑ 8	29 28	18 29	10	51	53
24	1 4	2 2	22 18	13 ♋ 9	8	29 37	19 4	14	50	50
25	2 3	3 16	22R 15	26 21	8	29 46	19 38	18	50	47
26	3 2	4 31	22 5	9 ♌ 16	7	29 56	20 12	21	49	44
27	4 1	5 46	21 48	21 56	7	0 ♌ 5	20 46	25	48	41
28	5 0	7 1	21 23	4 ♍ 24	10 6	0 14	21 20	24 29	20 47	3 37
29	5 59	8 16	20 50	16 40	6	0 22	21 54	33	45	34
30	6 58	9 31	20 10	28 46	10 5	0 31	22 27	24 36	20 44	3 31

Fellowship Press, Oceanside, Calif.

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1883

Full Moon September 16th in ♓ 23° 15′

Declination of the Planets

D	S T	☉ N	♀ N	♂ S	☽ N	♄ N	♅ N	♂ N	♆ N	♇ N
1	10 41	8 19	11 30	2 30	4 47	20 3	21 12	23 38	3 32	16 19
2	45	7 57	11 3	3 8	0 45	3	10	37	30	19
3	49	7 35	10 36	3 46	3 s16	3	8	36	28	19
4	53	7 13	10 10	4 24	7 7	3	6	35	27	19
5	57	6 51	9 42	4 59	10 38	3	4	34	26	19
6	11 0	6 29	9 14	5 35	13 42	3	2	33	25	19
7	11 4	6 6	8 47	6 11	16 13	20 4	21 0	23 32	23	16 18
8	8	5 44	8 18	6 43	18 3	4	20 58	30	21	18
9	12	5 21	7 50	7 16	19 7	4	56	28	19	18
10	16	4 59	7 22	7 49	19 17	4	54	27	18	18
11	20	4 36	6 53	8 18	18 31	4	52	25	17	18
12	24	4 13	6 24	8 47	16 47	4	50	23	16	18
13	28	3 50	5 55	9 16	14 5	4	49	21	14	17
14	11 32	3 27	5 25	9 40	10 31	20 4	20 47	23 18	12	16 17
15	36	3 0	4 56	10 5	6 14	4	45	15	10	17
16	40	2 41	4 27	10 30	1 29	4	43	13	9	17
17	44	2 18	3 57	10 49	3 N25	4	41	10	7	17
18	48	1 54	3 27	11 8	8 9	4	39	7	5	17
19	52	1 31	2 58	11 27	12 21	4	37	4	4	16
20	56	1 8	2 27	11 39	15 44	4	35	1	3	16
21	12 0	0 44	1 57	11 51	18 2	20 4	20 33	22 58	1	16 16
22	4	0 21	1 27	12 3	19 9	3	31	54	0	15
23	7	0 s 2	0 56	12 6	19 5	3	29	50	2 59	15
24	11	0 26	0 26	12 9	17 54	3	27	46	57	15
25	15	0 49	0 s 4	12 11	15 48	3	26	43	55	14
26	19	1 13	0 34	12 2	12 56	3	24	39	54	14
27	23	1 36	1 4	11 53	9 32	3	22	35	53	14
28	12 27	1 59	1 35	11 45	5 46	20 2	20 21	22 32	52	16 13
29	31	2 23	2 5	11 26	1 48	2	19	28	51	13
30	12 35	2 46	2 36	11 7	2 s11	20 2	20 17	22 23	2 49	16 13

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1883

New Moon October 1st in ♎ 7° 57′

Eclipse of Sun October 30th in ♏ 6° 44′

Longitude of the Planets

D	☉	☿	♂	♃	♄	♅	♆	♇	♈
	° ♎′	° ♎′	° ♎′	° ♎′	°♊′	° ♌′	° ♐′	° ♍′	° ♉′	° ♏′
1	7 57	10 46	19R22	10 46	10R 4	0 40	23 1	24 40	20R43	3 28
2	8 56	12 0	18 28	22 36	3	48	23 34	44	42	25
3	9 55	13 15	17 28	4 ♏24	2	56	24 7	48	41	22
4	10 54	14 30	16 23	16 10	0	1 5	24 40	51	40	18
5	11 54	15 45	15 15	27 58	9 59	13	25 13	55	39	15
6	12 53	17 0	14 4	9 ♐50	58	21	25 45	59	38	12
7	13 52	18 15	12 54	21 52	9 56	1 28	26 17	25 2	20 36	3 9
8	14 51	19 30	11 45	4 ♑ 7	54	36	26 50	6	35	6
9	15 51	20 45	10 40	16 40	53	44	27 22	9	33	3
10	16 50	22 0	9 41	29 36	51	51	27 53	13	32	2 59
11	17 49	23 15	8 50	12♒57	49	58	28 25	17	31	56
12	18 49	24 30	8 7	26 46	47 2	5	28 56	20	30	53
13	19 48	25 45	7 34	11♓ 2	44	12	29 27	24	28	50
14	20 48	27 0	7 12	25 43	9 42	2 19	29 58	25 27	20 27	2 47
15	21 47	28 15	7 1	10♈43	40	26	0♌29	31	26	44
16	22 47	29 30	7 D 1	25 54	37	32	1 0	34	24	40
17	23 46	0♏45	7 11	11♉ 6	35	39	1 30	38	22	37
18	24 46	2 0	7 33	26 9	32	45	2 0	41	20	34
19	25 45	3 15	8 4	10♊57	29	51	2 30	44	19	31
20	26 45	4 30	8 44	25 23	26	57	3 0	48	18	28
21	27 45	5 45	9 33	9 ♋23	9 23	3 3	3 29	25 51	20 17	2 25
22	28 45	7 0	10 29	22 58	20	8	3 59	55	15	21
23	29 44	8 15	11 32	6 ♌ 9	17	14	4 28	58	13	18
24	0♏44	9 30	12 41	18 58	14	19	4 56	26 1	11	15
25	1 44	10 45	13 55	1 ♍28	11	24	5 25	4	10	12
26	2 44	12 0	15 13	13 44	7	29	5 53	8	8	9
27	3 44	13 15	16 35	25 48	4	34	6 21	11	5	6
28	4 44	14 30	18 1	7 ♎44	9 0	3 38	6 49	26 14	20 5	2 2
29	5 44	15 45	19 29	19 35	8 57	43	7 16	17	3	1 59
30	6 44	17 0	20 59	1 ♏22	53	47	7 44	20	1	56
31	7 44	18 15	22 30	13 10	8 49	3 51	8 11	26 23	20 0	1 53

Internet Archive Books

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1883

Eclipse of Moon October 16th in ♈ 22° 47′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♃	♂	♅	♆
		S	S	S	S	N	N	N	N	N
1	12 39	3 10	3 7	10 41	6 2	20 1	20 15	22 19	2 48	16 12
2	43	3 33	3 37	10 6	9 38	1	13	15	46	12
3	47	3 56	4 7	9 31	12 49	1	11	10	44	12
4	51	4 19	4 37	8 57	15 28	1	10	5	43	11
5	55	4 42	5 7	8 13	17 29	1	9	1	42	11
6	59	5 6	5 37	7 30	18 45	1	8	21 56	41	11
7	13 3	5 29	6 7	6 47	19 11	20 0	20 6	21 51	2 39	16 10
8	7	5 52	6 36	6 3	18 44	19 59	4	45	37	10
9	11	6 14	7 6	5 19	17 22	58	2	41	35	10
10	14	6 37	7 36	4 36	15 5	58	1	36	34	9
11	18	7 0	8 5	4 1	11 57	57	0	31	33	9
12	22	7 23	8 34	3 26	8 4	57	19 59	26	32	9
13	26	7 45	9 4	2 51	3 36	57	57	21	30	8
14	13 30	8 8	9 32	2 31	1N 12	19 56	19 55	21 16	2 29	16 8
15	34	8 30	10 0	2 12	6 2	56	53	17	28	8
16	38	8 52	10 29	1 53	10 34	56	52	5	26	7
17	42	9 14	10 57	1 50	14 24	55	51	0	25	6
18	46	9 36	11 25	1 47	17 13	54	50	20 55	24	5
19	50	9 58	11 53	1 45	18 49	54	49	49	23	5
20	54	10 19	12 19	1 57	19 8	53	48	43	21	5
21	13 58	10 41	12 46	2 9	18 15	19 53	19 47	20 37	2 19	16 5
22	14 2	11 2	13 13	2 22	16 20	53	45	32	18	4
23	6	11 23	13 39	2 45	13 37	52	44	27	17	4
24	10	11 44	14 5	3 9	10 19	51	43	22	16	4
25	14	12 5	14 31	3 33	6 37	51	42	16	14	3
26	18	12 26	14 56	4 4	2 43	50	41	10	13	2
27	22	12 46	15 21	4 35	1 S 14	49	40	4	12	1
28	14 25	13 6	15 46	5 7	5 6	19 49	19 39	19 59	2 10	16 1
29	29	13 27	16 9	5 43	8 45	48	38	54	9	1
30	33	13 46	16 33	6 19	12 3	47	37	49	8	1
31	14 37	14 6	16 57	6 55	14 51	19 47	19 37	19 43	2 7	16 0

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1883

New Moon November 29th in ♐ 6° 57′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇
	°♏′	°♏′	°♒′	°♏′	°♊′	°♌′	°♌′	°♍′	°♑′	°♏′
1	8 44	19 30	24 4	24 58	8 R 45	3 55	8 37	26 26	19R 59	1 49
2	9 44	20 45	25 38	6 ♐ 50	41	58	9 3	30	57	46
3	10 44	22 0	27 13	18 49	37	4 2	9 29	32	55	43
4	11 44	23 15	28 49	0 ♑ 56	33	5	9 55	35	54	40
5	12 45	24 31	0♏ 26	13 15	29	8	10 21	38	52	37
6	13 45	25 46	2 3	25 48	25	11	10 46	41	50	34
7	14 45	27 1	3 40	8 ♒ 40	8 21	4 14	11 10	26 44	19 49	1 30
8	15 45	28 16	5 17	21 53	16	17	11 35	47	47	27
9	16 46	29 31	6 54	5 ♓ 30	12	19	11 59	50	45	24
10	17 46	0 ♐ 46	8 31	19 32	8	21	12 23	52	43	21
11	18 46	2 1	10 8	3 ♈ 59	3	23	12 46	55	41	18
12	19 47	3 16	11 45	18 48	7 59	25	13 9	58	39	15
13	20 47	4 31	13 22	3 ♉ 52	54	27	13 32	27 0	38	11
14	21 48	5 46	14 59	19 4	7 49	4 28	13 54	27 3	19 36	1 8
15	22 48	7 1	16 35	4 ♊ 15	45	30	14 16	5	34	5
16	23 49	8 16	18 12	19 14	40	31	14 38	8	33	2
17	24 49	9 31	19 48	3 ♋ 53	35	32	14 59	10	31	0 59
18	25 50	10 46	21 24	18 7	31	32	15 20	13	29	56
19	26 50	12 1	22 59	1 ♌ 53	26	33	15 40	15	28	52
20	27 51	13 16	24 35	15 10	21	33	16 0	17	26	49
21	28 51	14 31	26 10	28 2	7 16	4 R 33	16 20	27 20	19 24	0 46
22	29 52	15 46	27 45	10♎ 31	11	33	16 39	22	23	43
23	0 ♐ 53	17 1	29 20	22 43	7	33	16 58	24	21	40
24	1 53	18 16	0 ♐ 55	4 ♏ 42	2	32	17 17	26	19	37
25	2 54	19 31	2 29	16 32	6 57	31	17 34	28	18	33
26	3 55	20 47	4 4	28 19	52	30	17 51	30	16	30
27	4 56	22 2	5 38	10♐ 5	47	29	18 8	32	14	27
28	5 57	23 17	7 12	21 54	6 42	4 28	18 24	27 34	19 13	0 24
29	6 57	24 32	8 47	3 ♐ 49	37	26	18 40	36	11	21
30	7 58	25 47	10 21	15 50	6 32	4 25	18 55	27 38	19 10	0 17

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1883

Full Moon November 14th in ♉ 21° 48'

Declination of the Planets

D	S T	☉	♀	♂	♑	♄	♅	♂	♆	♇
		S	S	S	S	N	N	N	N	N
1	14 41	14 25	17 20	7 33	17 2	19 47	19 36	19 38	2 5	16 0
2	45	14 44	17 42	8 11	18 30	46	35	32	4	0
3	49	15 3	18 4	8 49	19 9	45	34	26	3	0
4	53	15 22	18 26	9 28	18 56	45	34	21	2	15 59
5	57	15 40	18 46	10 6	17 49	44	33	16	1	58
6	15 1	15 59	19 6	10 45	15 50	43	32	11	0	57
7	15 5	16 16	19 27	11 24	13 2	♈ 43	19 32	19 6	1 58	15 57
8	9	16 34	19 46	12 2	9 30	42	32	1	57	57
9	13	16 51	20 5	12 40	5 23	41	32	18 56	56	57
10	17	17 8	20 24	13 18	0 50	41	31	50	55	56
11	21	17 25	20 41	13 54	3 N53	40	31	45	54	55
12	25	17 42	20 58	14 30	8 30	39	31	40	53	54
13	29	17 58	21 15	15 7	12 41	39	30	36	52	54
14	15 32	18 14	21 30	15 41	16 2	9 38	19 30	18 31	1 51	15 53
15	36	18 29	21 45	16 15	18 16	37	30	26	50	52
16	40	18 44	22 1	16 50	19 11	37	30	22	49	52
17	44	18 59	22 14	17 22	18 46	36	30	17	48	52
18	48	19 14	22 27	17 54	17 10	35	30	12	47	52
19	52	19 28	22 41	18 26	14 38	34	30	8	47	51
20	56	19 42	22 52	18 55	11 24	33	30	4	46	51
21	16 0	19 55	23 3	19 24	7 44	19 32	19 30	18 0	1 45	15 51
22	4	20 8	23 15	19 54	3 49	32	31	17 56	44	50
23	8	20 21	23 24	20 20	0 s 10	31	31	52	43	50
24	12	20 34	23 33	20 46	4 5	30	31	48	42	50
25	16	20 45	23 43	21 13	7 48	30	32	45	41	49
26	20	20 57	23 50	21 36	11 12	29	32	42	40	49
27	24	21 8	23 57	21 59	14 10	28	32	39	39	49
28	16 28	21 19	24 5	22 23	16 33	19 27	19 33	17 36	1 38	15 48
29	32	21 29	24 10	22 43	18 14	26	33	33	38	48
30	16 36	21 39	24 16	23 4	19 7	19 26	19 34	17 30	1 37	15 47

Fellowship Press, Oceanside, Calif.

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1883

New Moon December 29th in ♑ 7° 28'

Longitude of the Planets

☽	☉ ° ′	♀ ° ′	♂ ° ′	♃ ° ′	♄ ° ′	♅ ° ′	♆ ° ′	♇ ° ′	♈ ° ′	♇ ° ′	☊ ° ′
1	8 59	27 2	11 55	28 0	6 ℞27	4 ℞23	19 10	27 40	19℞ 9	0	14
2	10 0	28 17	13 29	10♑20	22	21	24	42	7		11
3	11 1	29 32	15 3	22 51	17	18	37	43	5		8
4	12 2	0♑47	16 37	5 ♒34	13	16	50	45	4		4
5	13 3	2 2	18 11	18 31	8	13	20 3	47	2		1
6	14 4	3 17	19 45	1 ♓43	3	10	15	48	19 1	29♒	8
7	15 5	4 32	21 19	15 13	5 58	4 7	20 26	27 50	19 0	29	55
8	16 6	5 47	22 53	29 1	54	4	37	51	18 58		52
9	17 7	7 2	24 27	13♈10	48	0	47	52	56		49
10	18 8	8 17	26 1	27 37	44 3	57	56	54	55		45
11	19 9	9 32	27 35	12♉20	39	53	21 5	55	54		42
12	20 10	10 47	29 9	27 15	34	49	13	56	53		39
13	21 11	12 2	0♑43	12♊13	30	45	21	57	51		36
14	22 12	13 16	2 18	27 7	5 25	3 40	21 27	27 58	18 50	29	33
15	23 13	14 31	3 52	11♋47	20	36	34	28 0	49		30
16	24 14	15 46	5 26	26 5	16	31	39	1	47		26
17	25 15	17 1	7 0	9 ♌58	11	26	44	2	46		23
18	26 16	18 16	8 34	23 23	7	21	48	2	45		20
19	27 17	19 31	10 8	6 ♍20	3	16	51	3	43		17
20	28 18	20 46	11 42	18 53	4 58	11	54	4	42		14
21	29 19	22 1	13 15	1 ♎ 7	4 54	3 5	21 55	28 5	18 41	29	11
22	0♑20	23 15	14 48	13 6	50	0	56	5	40		7
23	1 21	24 30	16 21	24 56	46 2	54	57	6	39		4
24	2 23	25 45	17 52	6 ♏42	42	48	℞56	7	38		1
25	3 24	27 0	19 24	18 29	38	42	55	7	36	28	58
26	4 25	28 15	20 54	0 ♐22	34	35	52	8	35		55
27	5 26	29 30	22 23	12 23	30	29	49	8	34		52
28	6 27	0♒44	23 50	24 36	4 26	2 22	21 46	28 8	18 33	28	48
29	7 28	1 59	25 16	7 ♑ 0	22	16	41	8	32		45
30	8 30	3 14	26 40	19 38	19	9	36	9	31		42
31	9 31	4 29	28 1	2 ♒28	4 15	2 2	21 29	28 9	18 30	28	38

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1883

Full Moon December 14th in ♊ 22° 12′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♃	♂	♅	♆
		S	S	S	S	N	N	N	N	N
1	16 40	21 49	24 20	23 23	19 8	19 25	19 35	17 27	1 37	15 47
2	43	58	23	39	18 15	24	36	25	36	47
3	47	22 6	26	55	16 29	23	37	23	35	47
4	51	15	28	24 12	13 53	23	37	21	35	46
5	55	23	29	24	10 35	22	38	19	34	45
6	59	30	30	37	6 42	21	39	17	33	49
7	17 3	22 37	24 30	50	2 23	19 21	19 39	17 16	1 33	15 44
8	7	44	28	58	2 N 9	20	40	15	33	44
9	11	50	26	25 7	6 41	19	41	14	33	44
10	15	55	24	16	10 57	19	42	13	32	43
11	19	23 1	20	20	14 37	18	43	12	32	43
12	23	5	16	25	17 22	17	44	11	32	43
13	27	10	12	30	18 56	17	46	11	31	42
14	17 31	23 13	24 6	25 30	19 11	19 16	19 47	17 11	1 31	15 42
15	35	17	0	30	18 7	15	48	11	31	42
16	39	20	23 54	30	15 56	15	50	12	30	41
17	43	22	46	26	12 54	14	51	13	29	41
18	47	24	37	22	9 17	13	52	14	28	41
19	50	25	28	17	5 20	13	54	15	28	40
20	54	26	18	8	1 16	12	55	17	28	40
21	17 58	23 27	23 8	24 59	2 S 45	19 11	19 56	17 19	1 28	15 40
22	18 2	27	22 57	24 50	6 35	11	58	21	28	39
23	6	27	45	24 36	10 7	10	20 0	23	28	39
24	10	26	32	24 22	13 14	9	2	25	28	39
25	14	24	19	24 9	15 49	9	3	28	27	38
26	18	23	5	23 51	17 45	9	5	31	27	38
27	22	20	21 50	23 33	18 55	9	7	34	27	38
28	18 26	23 18	21 35	23 15	19 14	19 8	20 8	17 38	1 27	15 38
29	30	14	18	22 53	18 38	8	10	42	27	38
30	34	11	1	22 31	17 7	8	12	46	27	38
31	18 38	23 7	20 45	22 10	14 43	19 7	20 13	17 50	1 26	15 37

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3780	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	35	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	68	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5692	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	28
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	00

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

M	13	14	15	16	17	18	19	20	21	M
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0
1	04	57	36	36	56	93	45	11	88	77	
2	2998	52	30	32	52	89	41	07	85	73	
3	92	46	25	27	47	85	37	03	81	70	
4	86	41	20	22	43	81	34	0999	77	66	
5	80	2635	2315	2017	1738	1476	1229	0996	0774	0563	0
6	74	29	10	12	34	72	25	92	70	59	
7	68	24	05	08	29	68	21	88	66	56	
8	62	18	00	03	25	64	17	84	63	52	
9	56	13	2295	1998	20	60	13	80	59	49	
10	50	2607	89	1993	1716	1455	1209	0977	0756	0546	0
11	45	02	84	89	11	51	05	73	52	42	
12	38	2596	79	84	07	47	01	69	49	39	
13	33	91	74	79	02	43	1197	65	45	35	
14	27	85	69	74	1698	38	93	62	42	32	
15	21	2580	2264	1969	1694	1434	1189	0958	0738	0529	0
16	15	75	59	65	89	30	85	54	34	25	
17	09	69	54	60	85	26	82	50	31	22	
18	03	64	49	55	80	22	78	47	27	18	
19	2997	58	44	50	76	17	74	43	24	15	
20	2991	2553	2239	1946	1671	1413	1170	0939	0720	0511	0
21	85	47	34	41	67	09	66	35	17	08	
22	80	42	29	36	63	05	62	32	13	05	
23	74	36	23	32	58	01	58	28	09	01	
24	68	31	18	27	54	1397	54	24	06	0498	
25	62	2526	2213	1922	1649	1393	1150	0920	0702	0495	
26	56	20	08	17	45	88	46	17	0699	91	
27	50	15	03	13	40	84	42	13	95	88	
28	45	09	2198	08	36	80	38	09	92	85	
29	39	04	93	03	32	76	34	05	88	81	
30	33	2499	2188	1899	1627	1372	1130	0902	0685	0478	
31	27	93	83	94	23	68	26	0898	81	74	
32	21	88	78	90	19	63	23	94	78	71	
33	16	83	73	85	14	59	10	91	74	68	
34	10	77	68	80	10	55	15	87	70	64	
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	
36	2798	67	59	71	01	47	07	80	64	58	
37	93	61	54	66	1597	43	03	76	60	54	
38	87	56	49	62	92	39	1099	72	56	51	
39	82	51	44	57	88	35	95	68	53	48	
40	2776	2445	2139	1852	1584	1331	1092	0865	0649	0444	
41	70	40	34	48	79	27	88	61	46	41	
42	65	35	29	43	75	22	84	57	42	37	
43	59	30	24	38	71	18	80	54	39	34	
44	53	24	19	34	66	14	76	50	35	31	
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	
46	42	14	09	25	58	06	68	43	29	24	
47	36	09	04	20	53	02	64	39	25	21	
48	31	03	2099	16	49	1298	61	35	21	18	
49	25	2398	2095	11	45	94	57	32	18	14	
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	
51	13	88	85	02	36	86	49	24	11	08	
52	08	82	80	1797	32	82	45	21	08	04	
53	02	77	75	93	28	78	41	17	04	01	
54	2696	72	70	88	23	74	37	14	01	0398	
55	90	2367	2065	1784	1519	1270	1034	0810	0597	0394	
56	85	62	61	79	15	66	30	06	94	91	
57	79	56	56	74	10	61	26	03	90	88	
58	73	51	51	70	06	57	22	0799	87	84	
59	67	46	46	65	02	53	18	95	83	81	

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No. 2.—*Lat.* 37-48 *degrees.*
No. 3.—*Lat.* 49-60 *degrees.*

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By our original simplified system we have constructed these Tables so that with them a figure is calculated for South Latitude by the same method and with the same ease as a figure is cast for North Latitude. The confusing methods of other authors are entirely absent in this system, which is so simple that the veriest tyro cannot go wrong.

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1884

New Moon January 28th in ♒ 8° 1′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♑′	° ♒′	° ♑′	° ♒′	° ♊′	° ♌′	° ♎′	° ♓′	° ♐′	° ♑′
1	10 32	5 43	29 19	15 30	4 R12	1 R55	21R22	28R 9	18R29	28 35
2	11 33	6 57	0♒34	28 44	8	48	14	9	29	23
3	12 34	8 12	1 45	12♓ 8	5	41	6	9	28	29
4	13 35	9 27	2 51	25 43	2	34	20 56	9	27	26
5	14 37	10 41	3 51	9 ♈29	3 59	26	46	9	26	23
6	15 38	11 56	4 45	23 26	56	19	35	8	25	19
7	16 39	13 10	5 32	7 ♉36	3 53	1 11	20 23	28 8	18 24	28 16
8	17 40	14 25	6 11	21 56	50	4	10	8	24	13
9	18 41	15 39	6 41	6 ♊25	47	0 56	19 56	8	23	10
10	19 42	16 54	7 2	20 57	45	48	42	7	23	7
11	20 43	18 8	7 12	5 ♋29	42	40	27	7	22	4
12	21 45	19 23	7 R10	19 51	39	33	11	6	21	0
13	22 46	20 37	6 57	3 ♌59	37	25	18 55	6	21	27 57
14	23 47	21 51	6 32	17 46	3 35	0 17	18 38	28 5	18 20	27 54
15	24 48	23 6	5 55	1 ♍ 9	33	9	20	5	20	51
16	25 49	24 20	5 8	14 8	31	1	2	4	20	48
17	26 50	25 34	4 11	26 44	29	29♋53	17 43	3	19	45
18	27 51	26 49	3 7	9 ♎ 0	27	45	23	2	19	41
19	28 52	28 3	1 54	21 1	25	37	3	1	18	38
20	29 53	29 17	0 38	2 ♏52	23	29	16 42	0	18	35
21	0♒54	0♓31	29♈21	14 40	3 22	29 20	16 21	27 59	18 18	27 32
22	1 55	1 45	28 6	26 29	20	12	15 59	58	18	29
23	2 56	2 59	26 51	8 ♐24	19	4	37	57	17	26
24	3 57	4 13	25 42	20 31	18	28 57	14	56	17	22
25	4 58	5 27	24 40	2 ♑52	17	49	14 51	55	17	19
26	5 59	6 41	23 45	15 30	16	41	28	54	17	16
27	7 0	7 55	22 58	28 25	15	33	4	52	17	13
28	8 1	9 9	22 20	11♒36	3 14	28 25	13 40	27 51	18 17	27 10
29	9 2	10 23	21 51	25 2	14	17	17	50	17	7
30	10 3	11 36	21 30	8 ♓40	13	9	12 53	48	17	4
31	11 4	12 50	21 18	22 27	3 13	28 1	12 29	27 47	18 17	27 0

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1884

Full Moon January 12th in ♋ 21° 45′

Declination of the Planets

D	S T	☉ S	♀ S	☿ S	☽ S	♄ N	♅ N	♂ N	♃ N	♆ N
1	18 42	23 2	20 28	21 46	11 34	19 6	20 14	17 55	1 26	15 37
2	46	22 57	20 9	21 21	7 48	6	16	18 0	26	37
3	50	51	19 50	20 57	3 36	5	18	5	26	36
4	54	45	19 30	20 31	0 N51	5	20	10	26	36
5	58	39	19 11	20 6	5 19	5	22	16	27	36
6	19 1	32	18 50	19 40	9 34	5	24	22	27	36
7	19 5	22 25	18 29	19 15	13 20	19 4	20 25	18 28	1 27	15 36
8	9	17	18 7	18 52	16 21	4	27	34	27	36
9	13	9	17 46	18 28	18 22	3	29	40	27	36
10	17	0	17 23	18 8	19 11	3	31	47	27	36
11	21	21 51	17 0	17 47	18 44	3	32	54	27	36
12	25	42	16 36	17 31	17 5	3	34	19 1	27	36
13	29	32	16 12	17 15	14 25	2	36	8	28	35
14	19 33	21 21	15 47	17 5	11 1	19 2	20 38	19 15	1 28	15 35
15	37	11	15 23	16 54	7 9	2	40	22	28	35
16	41	0	14 57	16 50	3 3	2	42	29	28	35
17	45	20 48	14 32	16 45	1 s 4	2	44	37	29	35
18	49	36	14 6	16 47	5 3	2	46	45	29	35
19	53	24	13 40	16 48	8 44	2	47	53	30	35
20	57	11	13 13	16 54	12 2	2	49	20 1	30	35
21	20 1	19 58	12 46	17 1	14 49	19 2	20 51	20 9	1 31	15 35
22	5	44	12 18	17 10	17 0	2	53	16	31	35
23	8	31	11 51	17 20	18 27	2	54	24	32	35
24	12	16	11 22	17 31	19 6	2	56	32	32	35
25	16	2	10 54	17 43	18 51	2	58	40	33	35
26	20	18 47	10 26	17 55	17 40	2	21 0	48	33	35
27	24	32	9 57	18 8	15 35	2	1	56	34	35
28	20 28	18 16	9 27	18 20	12 40	19 2	21 3	21 4	1 34	15 35
29	32	0	8 58	18 32	9 2	2	5	11	35	35
30	36	17 44	8 28	18 43	4 53	2	7	18	35	35
31	20 40	17 27	7 59	18 55	0 26	19 2	21 8	21 25	1 36	15 35

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1884

New Moon February 26th in ♓ 7° 20′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇
	° ♒′	° ♓′	° ♈′	° ♊′	° ♑′	° ♌′	° ♍′	° ♉′	° ♏′
1	12 5	14 4	21 15	6 21	3 R12	27R54	12R 5	27R45	18 17	26 57
2	13 6	15 17	21 17	20 20	12	46	11 41	44	17	53
3	14 7	16 31	21 28	4 ♉ 21	12	39	17	42	17	50
4	15 8	17 45	21 45	18 26	12	31	10 53	40	18	47
5	16 8	18 58	22 9	2 ♊ 33	D12	24	29	38	18	44
6	17 9	20 11	22 38	16 40	13	17	6	37	18	41
7	18 10	21 25	23 12	0 ♋ 47	3	13	27 10	9 42	27 35	18 19	26 38
8	19 11	22 38	23 51	14 50		13	3	19	33	19	35
9	20 11	23 51	24 34	28 45		14	26 56	8 57	31	19	32
10	21 12	25 4	25 21	12♌ 28		15	49	35	29	20	28
11	22 13	26 17	26 12	25 56		16	42	13	27	20	25
12	23 13	27 30	27 6	9 ♍ 6		17	36	7 52	25	20	22
13	24 14	28 43	28 3	21 56		18	30	31	23	21	19
14	25 14	29 56	29 3	4 ♎ 28	3	19	26 23	7 11	27 21	18 21	26 16
15	26 15	1 ♈ 8	0 ♒ 6	16 43		20	17	6 51	19	22	13
16	27 16	2 21	1 11	28 45		21	11	32	17	23	9
17	28 16	3 34	2 18	10♏ 38		23	5	13	15	24	6
18	29 17	4 47	3 27	22 26		25	0	5 55	13	25	3
19	0♓ 17	5 59	4 39	4 ♐ 16		26	25 54	38	11	25	0
20	1 18	7 12	5 52	16 13		28	49	22	9	26	25 57
21	2 18	8 24	7 7	28 21	3	30	25 43	5 6	27 6	18 27	25 54
22	3 18	9 36	8 23	10♑ 45		32	38	4 51	4	28	50
23	4 19	10 48	9 41	23 29		34	33	36	2	29	47
24	5 19	12 1	11 1	6 ♒ 34		36	29	22	26 59	30	44
25	6 19	13 13	12 22	20 1		39	24	9	57	30	41
26	7 20	14 25	13 44	3 ♓ 47		41	20	3 57	54	31	38
27	8 20	15 36	15 8	17 50		44	15	46	52	32	35
28	9 20	16 48	16 33	2 ♈ 4	3	47	25 11	3 35	26 50	18 33	25 31
29	10 20	18 0	17 59	16 25	3	49	25 8	3 25	26 47	18 34	25 28

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1884

Full Moon February 11th in ♌ 22° 13′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		S	S	S	N	N	N	N	N	N
1	20 44	17 11	7 29	19 6	4 5	19 3	21 10	21 32	1 37	15 35
2	48	16 53	6 58	15	8 24	3	11	39	38	35
3	52	36	6 28	24	12 16	3	12	46	39	35
4	56	18	5 58	34	15 27	3	14	53	39	36
5	21 0	0	5 27	40	17 43	3	16	59	40	36
6	4	15 42	4 56	47	18 53	3	18	22 5	41	36
7	21 8	15 23	4 25	19 54	18 52	19 4	21 19	22 11	1 41	15 36
8	12	5	3 54	58	17 42	4	20	16	42	36
9	15	14 46	3 23	20 2	15 29	4	21	22	43	37
10	19	26	2 52	5	12 26	5	23	28	43	37
11	23	7	2 20	5	8 47	6	24	32	44	37
12	27	13 47	1 48	6	4 47	6	25	37	45	37
13	31	27	1 17	6	0 40	7	27	42	46	37
14	21 35	13 7	0 46	20 3	3 S 24	19 7	21 28	22 48	1 47	15 37
15	39	12 46	0 15	0	7 14	7	29	50	48	37
16	43	26	0 N 17	19 56	10 41	8	31	54	48	38
17	47	5	0 48	49	13 40	9	32	57	49	38
18	51	11 44	1 20	42	16 4	9	33	23 0	50	38
19	55	22	1 52	35	17 47	10	34	4	51	39
20	59	1	2 26	24	18 44	10	35	6	52	39
21	22 3	10 39	3 1	19 13	18 51	19 11	21 36	23 8	1 53	15 39
22	7	18	3 36	2	18 3	12	37	11	54	39
23	11	9 56	4 4	18 47	16 22	13	38	13	55	39
24	15	34	4 32	32	13 47	14	39	15	56	39
25	19	12	5 0	18	10 26	14	40	16	57	40
26	23	8 49	5 30	17 59	6 27	15	41	17	58	40
27	26	27	6 1	40	2 1	16	42	18	59	40
28	22 30	8 4	6 32	17 22	2 N 35	19 16	21 42	23 18	2 0	15 40
29	22 34	7 41	7 3	17 1	7 4	19 17	21 43	23 18	2 1	15 41

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1884

Eclipse of Sun March 27th in ♈ 7° 14'

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♓′	° ♈′	° ♒′	° ♉′	° ♊′	° ♋′	° ♌′	° ♍′	° ♑′	° ♏′
1	11 21	19 11	19 27	0 47	3 52	25R 4	3 R16	26R45	18 35	25 25
2	12 21	20 23	20 56	15 8	55	0	8	42	36	22
3	13 21	21 34	22 26	29 23	58	24 57	1	40	37	19
4	14 21	22 46	23 57	13♊31	4 2	54	2 54	37	39	15
5	15 21	23 57	25 29	27 31	5	51	48	35	40	12
6	16 21	25 8	27 2	11♋21	8	48	43	32	41	9
7	17 21	26 19	28 36	25 1	4 12	24 46	2 39	26 29	18 42	25 6
8	18 21	27 30	0♓12	8 ♌30	15	43	36	27	43	3
9	19 21	28 40	1 49	21 46	19	41	33	24	44	0
10	20 21	29 51	3 27	4 ♍49	23	39	31	22	46	24 56
11	21 21	1 ♉ 1	5 6	17 38	27	37	30	19	48	53
12	22 20	2 12	6 46	0 ♎12	31	36	D29	17	50	50
13	23 20	3 22	8 28	12 33	35	33	30	14	51	47
14	24 20	4 32	10 11	24 42	4 39	24 32	2 31	26 11	18 52	24 44
15	25 19	5 42	11 55	6 ♏41	43	31	33	9	53	41
16	26 19	6 52	13 40	18 33	47	31	35	6	55	37
17	27 19	8 1	15 26	0 ♐22	52	30	38	4	57	34
18	28 18	9 11	17 14	12 12	56	30	42	1	59	31
19	29 18	10 21	19 3	24 8	5 2	30	46	25 58	19 0	28
20	0♈18	11 30	20 53	6 ♑16	6	29	51	56	2	25
21	1 17	12 39	22 45	18 39	5 10	24D29	2 57	25 53	19 4	24 22
22	2 17	13 48	24 37	1 ♒22	15	30	3 4	50	5	18
23	3 16	14 57	26 31	14 28	20	30	11	48	7	15
24	4 15	16 6	28 26	27 59	25	31	19	45	9	12
25	5 15	17 14	0♈22	11♓54	30	32	27	43	10	9
26	6 14	18 23	2 21	26 12	35	33	36	40	12	6
27	7 14	19 31	4 19	10♈46	40	34	45	38	14	3
28	8 13	20 39	6 19	25 32	5 46	24 36	3 55	25 35	19 15	23 59
29	9 12	21 47	8 20	10♉21	51	37	4 5	33	17	56
30	10 11	22 55	10 22	25 7	57	39	17	30	19	53
31	11 10	24 2	12 25	9 ♊43	6 2	24 41	4 29	25 28	19 21	23 50

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1884

Full Moon March 11th in ♍ 21° 21′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♅	♆	♇	♈
		S	N	S	N	N	N	N	N	N
1	22 38	7 19	7 33	16 38	11 9	19 18	21 44	23 19	2 2	15 42
2	42	6 56	8 3	16 13	14 34	19	45	19	3	42
3	46	6 32	8 33	15 48	17 4	20	45	19	4	42
4	50	6 10	9 4	15 23	18 30	20	46	18	5	43
5	54	5 46	9 33	14 54	18 47	21	46	17	6	43
6	58	5 23	10 2	14 25	17 55	22	46	16	7	43
7	23 2	5 0	10 32	13 56	16 2	19 23	21 47	23 15	2 8	15 44
8	6	4 36	11 1	13 23	13 18	24	47	14	9	44
9	10	4 13	11 30	12 50	9 56	25	47	13	10	44
10	14	3 49	11 59	12 18	6 7	25	48	11	11	45
11	18	3 26	12 27	11 41	2 5	26	48	9	12	46
12	22	3 2	12 55	11 4	1 S58	27	48	7	13	46
13	26	2 39	13 23	10 28	5 51	28	49	5	14	47
14	23 30	2 15	13 50	9 47	9 27	19 29	21 49	23 2	2 15	15 47
15	33	1 51	14 17	9 7	12 36	30	49	22 59	16	47
16	37	1 28	14 44	8 27	15 12	31	50	57	17	48
17	41	1 4	15 10	7 43	17 8	32	50	54	18	49
18	45	0 40	15 36	6 59	18 20	33	50	51	19	49
19	49	0 17	16 3	6 16	18 44	34	50	48	20	50
20	53	0 N 7	16 28	5 28	18 17	35	50	45	21	50
21	23 57	0 31	16 53	4 41	16 58	19 36	21 50	22 42	2 22	15 50
22	0 1	0 55	17 18	3 54	14 47	38	50	38	23	51
23	5	1 18	17 41	3 3	11 48	39	50	34	24	51
24	9	1 42	18 5	2 12	8 7	40	50	30	25	51
25	13	2 5	18 29	1 22	3 53	41	50	26	26	52
26	17	2 29	18 51	0 S29	0 N41	42	50	22	27	53
27	21	2 52	19 13	0 N25	5 18	43	50	18	28	53
28	0 25	3 16	19 36	1 18	9 40	19 44	21 49	22 13	2 29	15 54
29	29	3 39	19 57	2 13	13 26	45	49	8	30	55
30	33	4 2	20 18	3 9	16 20	46	49	3	31	55
31	0 37	4 26	20 40	4 5	18 7	19 48	21 48	21 59	2 32	15 56

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1884

Eclipse of Sun April 25th in ♉ 5° 39′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♈′	° ♉′	° ♈′	° ♊′	° ♊′	° ♋′	° ♌′	° ♍′	° ♉′	° ♑′
1	12 10	25 10	14 29	24 5	6 8	24 43	4 41	25R25	19 22	23 46
2	13 9	26 17	16 33	8 ♋10	13	45	4 54	23	24	43
3	14 8	27 24	18 38	21 57	19	48	5 7	20	26	40
4	15 7	28 30	20 42	5 ♌26	25	51	5 21	18	28	37
5	16 6	29 37	22 47	18 38	31	54	5 35	15	30	34
6	17 5	0♊43	24 51	1 ♍33	37	57	5 50	13	32	31
7	18 4	1 49	26 54	14 15	6 43	25 1	6 5	25 11	19 34	23 27
8	19 3	2 55	28 57	26 43	49	4	6 21	8	36	24
9	20 1	4 1	0♉58	9 ♎ 1	55	8	6 37	6	38	21
10	21 0	5 7	2 57	21 8	7 1	11	6 54	4	40	18
11	21 59	6 12	4 54	3 ♏ 8	7	15	7 11	2	42	15
12	22 58	7 17	6 49	15 2	13	20	7 28	24 59	44	12
13	23 56	8 22	8 41	26 52	20	24	7 46	57	46	8
14	24 55	9 26	10 30	8 ♐41	7 26	25 28	8 4	24 55	19 48	23 5
15	25 54	10 30	12 16	20 33	33	33	8 23	53	50	2
16	26 52	11 33	13 58	2 ♑30	39	38	8 42	51	52	22 58
17	27 51	12 37	15 36	14 37	46	43	9 1	49	54	55
18	28 50	13 41	17 10	26 57	52	48	9 21	47	56	52
19	29 48	14 44	18 39	9 ♒37	59	53	9 41	45	58	49
20	0♉47	15 47	20 4	22 38	8 6	59	10 1	43	19 0	46
21	1 45	16 50	21 25	6 ♓ 4	8 13	26 4	10 22	24 41	20 2	22 43
22	2 44	17 52	22 41	19 57	19	10	10 43	39	5	39
23	3 42	18 54	23 53	4 ♈15	26	16	11 5	37	7	36
24	4 40	19 55	24 59	18 57	33	22	11 27	35	9	33
25	5 39	20 56	26 0	3 ♉55	40	28	11 49	33	11	30
26	6 37	21 57	26 57	19 3	47	34	12 11	32	13	27
27	7 36	22 58	27 48	4 ♊10	54	41	12 34	30	15	24
28	8 34	23 58	28 34	19 7	9 1	26 48	12 57	24 28	20 18	22 20
29	9 32	24 58	29 14	3 ♋48	8	54	13 20	27	20	17
30	10 30	25 57	29 49	18 7	9 15	27 1	13 44	24 25	20 22	22 14

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1884

Eclipse of Moon April 10th in ♎ 21° 0′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ N	♄ N	♃ N	♂ N	♅ N	♆ N
1	0 41	4 49	21 0	5 1	18 42	19 49	21 48	21 54	2 33	15 56
2	44	5 12	21 19	5 57	18 6	50	47	49	34	57
3	48	5 35	21 38	6 54	16 26	51	46	44	35	57
4	52	5 58	21 57	7 51	13 54	52	46	39	36	58
5	56	6 20	22 14	8 47	10 42	53	45	33	37	58
6	1 0	6 43	22 32	9 48	7 3	54	45	27	38	58
7	1 4	7 5	22 50	10 39	3 8	19 56	21 45	21 22	2 39	15 59
8	8	7 28	23 6	11 32	0 s51	57	44	16	40	0
9	12	7 50	23 22	12 25	4 46	58	43	10	41	1
10	16	8 12	23 38	13 18	8 25	59	42	5	41	16 1
11	20	8 34	23 52	14 6	11 42	20 0	41	20 59	42	2
12	24	8 56	24 6	14 55	14 27	1	41	53	43	2
13	28	9 18	24 20	15 44	16 36	3	40	46	44	3
14	1 32	9 39	24 32	16 26	18 1	20 4	21 39	20 39	2 45	16 4
15	36	10 1	24 45	17 8	18 40	5	38	32	46	4
16	40	10 22	24 58	17 50	18 28	7	38	26	46	5
17	44	10 43	25 8	18 25	17 27	8	37	19	47	5
18	48	11 4	25 19	19 0	15 36	9	36	12	48	5
19	51	11 25	25 30	19 35	12 58	10	35	6	49	6
20	55	11 45	25 39	20 2	9 37	11	34	19 59	50	6
21	1 59	12 6	25 48	20 29	5 41	20 12	21 33	19 52	2 51	16 7
22	2 3	12 26	25 57	20 57	1 19	14	32	44	51	8
23	7	12 46	26 4	21 16	3 N16	15	31	36	52	9
24	11	13 5	26 11	21 35	7 47	16	30	28	53	10
25	15	13 25	26 18	21 55	11 54	18	28	21	53	10
26	19	13 44	26 23	22 6	15 16	19	27	13	54	11
27	23	14 3	26 28	22 18	17 35	20	26	5	55	12
28	2 27	14 22	26 34	22 30	18 38	20 21	21 24	18 57	2 55	16 12
29	31	14 41	26 39	22 36	18 25	22	22	49	56	13
30	2 35	14 59	26 44	22 42	17 1	20 23	21 20	18 41	2 57	16 13

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1884

New Moon May 24th in ♊ 3° 39'

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♉ ′	° ♊ ′	° ♊ ′	° ♌ ′	° ♎ ′	° ♊ ′	° ♋ ′	° ♍ ′	° ♉ ′	° ♒ ′
1	11 28	26 56	0 19	2 0	9 23	27 8	14 8	24R24	20 25	22 11
2	12 27	27 54	0 44	15 29	30	16	14 32	22	27	8
3	13 25	28 52	1 3	28 34	37	23	14 56	21	29	5
4	14 23	29 50	1 17	11♍19	44	30	15 20	19	32	1
5	15 21	0♋47	1 26	23 47	52	38	15 45	18	34	58
6	16 19	1 43	1 R29	6 ♎ 2	59	46	16 11	16	36	56
7	17 17	2 39	1 27	18 6	10 6	27 54	16 36	24 15	20 39	21 52
8	18 15	3 35	1 21	0 ♏ 3	13	28 2	17 2	13	40	49
9	19 13	4 30	1 10	11 55	21	10	17 28	12	43	46
10	20 11	5 25	0 54	23 45	29	18	17 54	11	45	42
11	21 9	6 19	0 34	5 ♐35	36	26	18 20	10	47	39
12	22 6	7 12	10	17 26	44	35	18 47	9	49	36
13	23 4	8 4	29 ♉43	29 21	51	43	19 13	8	52	33
14	24 2	8 56	14	11♑22	10 59	28 52	19 40	24 7	20 54	21 30
15	25 0	9 48	28 43	23 32	11 6	29 1	20 7	6	56	27
16	25 58	10 38	28 10	5 ♒54	14	10	20 35	6	59	23
17	26 55	11 28	27 35	18 32	22	19	21 2	5	21 1	20
18	27 53	12 17	27 1	1 ♓28	29	28	21 30	4	3	17
19	28 51	13 6	26 26	14 47	37	37	21 58	3	6	14
20	29 49	13 54	25 52	28 31	45	46	22 26	3	8	11
21	0♊46	14 41	25 20	12♈40	11 52	29 56	22 55	24 2	21 10	21 8
22	1 44	15 27	24 49	27 15	12 0	0♌6	23 23	2	12	4
23	2 42	16 12	24 21	12♉11	8	15	23 52	2	14	1
24	3 39	16 56	23 55	27 21	16	25	24 21	1	16	20 58
25	4 37	17 39	23 33	12♊36	23	34	24 50	1	19	54
26	5 34	18 22	23 15	27 45	31	44	25 19	1	21	51
27	6 32	19 3	23 0	12♋40	39	54	25 48	1	23	48
28	7 29	19 43	22 49	27 11	12 47	1 5	26 18	24 1	21 26	20 45
29	8 27	20 22	22 42	11♌14	54	15	26 48	1	28	42
30	9 25	21 0	22D40	24 49	13 2	25	27 18	0	30	39
31	10 22	21 37	22 42	7 ♍56	13 10	1 35	27 48	24 0	21 32	20 35

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1884

Full Moon May 10th in ♏ 20° 11′

Declination of the Planets

D	ST	☉ N	♀ N	♂ N	☽ N	♃ N	♅ N	♂ N	♅ N	♆ N
1	2 39	15 17	26 44	22 44	14 39	20 25	21 20	18 32	2 57	16 14
2	43	35	46	22 41	11 33	26	19	23	57	14
3	47	53	48	22 39	7 57	27	18	15	57	14
4	51	16 10	50	22 36	4 5	29	16	7	58	15
5	55	27	50	22 27	0 6	30	14	17 58	59	16
6	58	44	50	22 17	3 s49	31	12	49	3 0	17
7	3 2	17 0	26 50	22 7	7 31	20 32	21 11	17 40	3 0	16 17
8	6	16	48	21 51	10 54	33	9	30	0	18
9	10	32	46	21 36	13 48	34	7	21	0	19
10	14	48	45	21 21	16 7	36	6	12	1	19
11	18	18 3	42	21 0	17 46	37	4	2	1	20
12	22	18	39	20 40	18 37	38	2	16 52	1	21
13	26	33	36	20 19	18 40	39	1	43	2	21
14	3 30	18 48	26 31	19 55	17 53	20 40	20 59	16 33	3 2	16 21
15	34	19 2	26	19 31	16 16	41	57	23	3	21
16	38	15	22	19 8	13 54	43	56	14	3	22
17	42	29	16	18 44	10 49	44	54	3	3	23
18	46	42	10	18 19	7 10	45	52	15 53	3	24
19	50	55	4	17 54	3 3	46	50	43	4	24
20	54	20 7	25 57	17 31	1 N21	47	48	32	4	24
21	3 58	20 19	25 50	17 8	5 50	20 48	20 46	15 22	3 4	16 25
22	4 2	31	43	16 45	10 6	50	44	12	4	26
23	6	43	35	16 26	13 50	51	42	1	4	27
24	9	54	27	16 6	16 42	52	40	14 50	4	28
25	13	21 4	18	15 47	18 23	53	38	39	5	28
26	17	15	9	15 33	18 45	54	36	28	5	28
27	21	25	24 0	15 20	17 47	55	34	17	5	28
28	4 25	21 34	24 50	15 7	15 42	20 56	20 31	14 6	3 5	16 29
29	29	44	40	15 0	12 44	57	29	13 54	5	30
30	33	52	30	14 54	9 10	58	27	43	5	31
31	4 37	22 1	24 20	14 46	5 16	20 59	20 24	13 32	3 5	16 31

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1884

New Moon June 23rd in ♋ 2° 20′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♆	♃	☊
	° ♊′	° ♋′	° ♉′	° ♍′	° ♊′	° ♌′	° ♌′	° ♍′	° ♉′	° ♎′
1	11 19	22 12	22 49	20 38	13 18	1 46	28 18	24 0	21 34	20 32
2	12 17	22 45	23 0	3 ♎ 2	26	57	28 48	0	36	29
3	13 14	23 19	23 16	15 9	33	2 7	29 19	1	38	26
4	14 12	23 50	23 36	27 7	41	18	29 50	1	40	23
5	15 9	24 20	24 0	8 ♏58	49	29	0♍21	1	42	20
6	16 6	24 49	24 29	20 47	57	40	0 52	1	44	17
7	17 4	25 16	25 2	2 ♐36	14 5	2 51	1 23	24 2	21 46	20 14
8	18 1	25 41	25 39	14 28	12	3 2	1 54	2	48	11
9	18 58	26 4	26 21	26 24	20	13	2 25	2	50	8
10	19 56	26 26	27 6	8 ♑27	28	24	2 57	3	53	4
11	20 53	26 46	27 55	20 36	36	35	3 28	4	55	1
12	21 50	27 4	28 48	2 ♒55	44	45	4 0	4	57	19 58
13	22 48	27 21	29 45	15 25	51	58	4 32	5	59	54
14	23 45	27 35	0♊46	28 7	14 59	4 9	5 4	24 6	22 1	19 50
15	24 42	27 47	1 50	11♓ 4	15 7	21	5 36	6	3	48
16	25 40	27 57	2 58	24 20	14	32	6 8	7	5	45
17	26 37	28 5	4 9	7 ♈56	22	44	6 41	8	7	42
18	27 34	28 11	5 24	21 54	30	56	7 13	9	9	39
19	28 31	28 15	6 42	6 ♉16	38	5 7	7 46	10	10	35
20	29 29	28R17	8 4	20 58	45	19	8 19	11	12	32
21	0♋26	28 16	9 29	5 ♊56	15 53	5 31	8 52	24 12	22 14	19 29
22	1 23	28 12	10 57	21 3	16 0	43	9 25	13	16	26
23	2 20	28 7	12 28	6 ♋ 8	8	55	9 58	14	18	23
24	3 18	27 59	14 3	21 3	16	6 7	10 31	15	20	20
25	4 15	27 48	15 41	5 ♌37	23	19	11 4	17	21	16
26	5 12	27 35	17 23	19 45	31	31	11 38	18	23	13
27	6 9	27 20	19 7	3 ♍25	38	44	12 11	19	25	10
28	7 6	27 3	20 54	16 36	16 46	6 56	12 45	24 21	22 27	19 7
29	8 4	26 43	22 44	29 21	53	7 8	13 19	22	29	4
30	9 1	26 21	24 37	11♎44	17 1	7 20	13 53	24 24	22 31	19 1

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1884

Full Moon June 8th in ♐ 18° 1′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ N	♄ N	♃ N	♂ N	♅ N	♆ N
1	4 41	22 9	24 9	14 44	1 14	21 0	20 22	13 20	3 5	16 31
2	45	17	23 58	14 46	2 s45	1	20	9	5	32
3	49	24	47	14 48	6 32	2	18	12 57	5	33
4	53	31	36	14 49	10 1	3	15	45	5	33
5	57	38	24	14 57	13 4	4	13	33	5	34
6	5 1	44	13	15 5	15 34	5	11	21	5	35
7	5 5	22 49	23 2	15 13	17 25	21 6	20 8	12 9	3 4	16 35
8	9	55	22 50	15 26	18 31	7	5	11 57	4	35
9	13	23 0	38	15 39	18 48	8	2	45	4	35
10	16	4	27	15 52	18 15	9	0	32	3	36
11	20	8	15	16 9	16 51	10	57	20	3	37
12	24	12	3	16 26	14 41	11	54	8	3	37
13	28	15	21 51	16 44	11 48	12	19 52	10 55	3	38
14	5 32	23 18	21 40	17 4	8 20	21 13	49	10 42	3 3	16 38
15	36	21	28	17 24	4 25	14	46	29	3	28
16	40	23	16	17 45	0 10	15	44	16	2	39
17	44	25	5	18 7	4 N11	16	41	3	1	39
18	48	26	20 53	18 30	8 26	17	38	9 50	1	39
19	52	27	41	18 53	12 20	17	35	37	0	40
20	56	27	29	19 16	15 32	18	32	24	0	40
21	6 0	23 27	20 18	19 40	17 46	21 19	19 29	9 11	3 0	16 40
22	4	27	7	20 4	18 46	20	27	8 57	2 59	42
23	8	26	19 56	20 26	18 26	21	24	44	58	42
24	12	25	45	20 48	16 50	22	21	29	57	42
25	16	23	34	21 10	14 10	22	18	17	57	43
26	20	21	23	21 32	10 45	23	15	3	57	43
27	24	18	13	21 54	6 51	24	12	7 49	57	43
28	6 27	23 16	19 3	22 16	2 45	21 24	19 9	7 36	2 56	16 44
29	31	12	18 53	22 34	1 s21	25	6	22	56	44
30	6 35	23 9	18 43	22 53	5 17	21 26	19 3	7 8	2 56	16 44

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1884

Now Moon July 22nd, in ♌ 0° 0′

Longitude of the Planets

D	☉	☿	☿	☽	♄	♅	♂	♃	♆	♇
	°♋′	°♋′	°♊′	°♎′	°♊′	°♌′	°♍′	°♍′	°♑′	°♎′
1	9 58	25R57	26 33	23 52	17 8	7 33	14 27	24 25	22 32	18 57
2	10 55	25 30	28 31	5 ♏48	15	45	15 1	27	34	53
3	11 52	25 2	0♋31	17 38	23	58	15 35	29	36	50
4	12 50	24 32	2 34	29 26	30	8 10	16 9	30	37	47
5	13 47	24 0	4 38	11 ♐17	37	23	16 44	32	39	44
6	14 44	23 27	6 44	23 14	45	35	17 18	34	41	41
7	15 41	22 53	8 51	5 ♑18	17 52	8 48	17 53	24 36	22 42	18 38
8	16 38	22 17	10 59	17 31	59	9 0	18 28	38	43	34
9	17 36	21 41	13 8	29 54	18 6	13	19 3	40	44	31
10	18 33	21 4	15 18	12♒27	13	26	19 37	42	46	28
11	19 30	20 26	17 27	25 11	20	39	20 12	44	47	25
12	20 27	19 49	19 36	8 ♓ 6	27	51	20 47	46	48	22
13	21 24	19 11	21 45	21 13	34	10 4	21 23	48	50	19
14	22 22	18 33	23 53	4 ♈34	18 41	10 17	21 58	24 50	22 51	18 15
15	23 19	17 57	26 0	18 10	48	30	22 33	52	52	12
16	24 16	17 22	28 6	2 ♉ 2	55	43	23 9	55	54	9
17	25 13	16 47	0♌11	16 12	19 2	56	23 44	57	55	6
18	26 11	16 14	2 15	0 ♊37	9	11 9	24 20	59	56	3
19	27 8	15 42	4 17	15 16	16	22	24 56	25 2	58	0
20	28 5	15 11	6 18	0 ♋ 3	22	35	25 31	4	59	17 56
21	29 3	14 43	8 17	14 50	19 29	11 48	26 7	25 7	23 0	17 53
22	0 ♌ 0	14 16	10 15	29 30	36	12 1	26 43	9	1	50
23	0 57	13 51	12 11	13♌54	42	14	27 20	12	2	47
24	1 55	13 28	14 5	27 57	49	27	27 56	14	3	44
25	2 52	13 8	15 57	11♍34	55	40	28 32	17	4	41
26	3 49	12 49	17 48	24 45	20 1	53	29 8	20	5	37
27	4 47	12 33	19 37	7 ♎31	8	13 6	29 44	22	6	34
28	5 44	12 20	21 25	19 57	20 14	13 19	0♎21	25 25	23 7	17 31
29	6 41	12 9	23 11	2 ♍ 5	20	32	0 58	28	8	28
30	7 39	12 0	24 55	14 3	27	46	1 35	31	9	25
31	8 36	11 53	26 37	25 54	20 33	13 59	2 11	25 33	23 10	17 22

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1884

Full Moon July 8th in ♑ 16° 38′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		N	N	N	S	N	N	N	N	N
1	6 39	23 5	18 34	23 8	8 55	21 27	18 59	6 54	2 54	16 45
2	43	0	25	23 20	12 8	28	56	39	53	46
3	47	22 55	16	23 32	14 49	29	53	25	52	46
4	51	50	7	23 44	16 53	29	50	11	52	47
5	55	44	17 59	23 48	18 14	30	47	5 57	51	47
6	59	38	51	23 52	18 47	31	44	43	50	47
7	7 3	22 32	17 43	23 57	18 29	21 31	18 40	5 29	2 49	16 48
8	7	25	36	23 54	17 21	32	37	14	48	48
9	11	18	29	23 51	15 23	33	34	4 59	47	48
10	15	10	21	23 47	12 41	33	30	45	47	49
11	19	2	15	23 35	9 21	34	27	30	46	49
12	23	21 54	9	23 23	5 32	34	24	15	45	49
13	27	45	2	23 12	1 24	34	20	1	44	50
14	7 31	21 36	16 57	22 52	2 N53	21 35	18 17	3 46	2 43	16 50
15	34	26	52	22 33	7 7	36	14	31	42	50
16	38	16	47	22 14	11 2	36	10	17	42	50
17	42	6	43	21 48	14 24	37	7	2	41	50
18	46	20 55	39	21 22	16 57	38	3 S2	47	40	50
19	50	45	35	20 57	18 25	38	17 59	32	39	51
20	54	33	32	20 27	18 40	39	55	17	38	51
21	7 58	20 22	16 29	19 55	17 38	21 39	17 51	2 2	2 37	16 51
22	8 2	10	27	19 24	15 28	39	48	1 47	36	52
23	6	19 57	25	18 49	12 22	40	45	32	35	52
24	10	45	23	18 14	8 37	41	42	17	34	52
25	14	32	22	17 39	4 32	41	38	2	32	53
26	18	18	22	17 1	0 21	42	34	0 46	31	53
27	22	5	21	16 23	3 S44	42	30	31	30	53
28	8 26	18 51	16 21	15 46	7 32	21 42	17 27	0 16	2 29	16 53
29	30	37	22	15 6	10 57	43	23	0 1	28	53
30	34	22	23	14 26	13 50	43	19	0 S14	27	53
31	8 38	18 7	16 23	13 47	16 7	21 43	17 15	0 30	2 26	16 54

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1884

New Moon August 20th in ♌ 27° 48′

Longitude of the Planets

D	☉	☿	♀	☽	♃	♄	♅	♆	♇	☊
	° ♌′	° ♋′	° ♌′	° ♐′	° ♊′	° ♌′	° ♓′	° ♍′	° ♑′	° ♓′
1	9 34	11R49	28 18	7 44	20 39	14 12	2 48	25 36	23 11	17 19
2	10 31	11 47	29 57	19 38	45	25	3 25	39	12	16
3	11 28	11D48	1♍35	1 ♑40	51	38	4 2	42	13	13
4	12 26	11 50	3 11	13 52	56	51	4 39	45	13	10
5	13 23	11 55	4 45	26 16	21 2	15 5	5 17	48	14	7
6	14 21	12 3	6 17	8 ♒53	8	18	5 54	51	15	4
7	15 18	12 12	7 48	21 44	21 13	15 31	6 31	25 54	23 15	17 0
8	16 16	12 23	9 17	4 ♓47	19	44	7 9	57	16	57
9	17 13	12 37	10 45	18 3	25	57	7 46	26 0	17	54
10	18 11	12 53	12 11	1 ♈29	30	16 10	8 24	4	17	16 50
11	19 9	13 11	13 35	15 6	35	24	9 1	7	17	47
12	20 6	13 30	14 58	28 52	41	37	9 39	10	17	44
13	21 4	13 51	16 19	12 ♉49	46	50	10 17	13	18	41
14	22 2	14 14	17 38	26 54	21 51	17 3	10 55	26 17	23 18	16 38
15	22 59	14 39	18 55	11♊ 2	56	16	11 33	20	18	35
16	23 57	15 5	20 10	25 29	22 1	29	12 11	23	19	31
17	24 55	15 33	21 24	9 ♋52	6	43	12 49	27	19	28
18	25 53	16 2	22 35	24 13	11	56	13 27	30	19	25
19	26 50	16 33	23 44	8 ♌28	16	18 9	14 6	33	20	22
20	27 48	17 6	24 51	22 30	21	22	14 44	37	20	19
21	28 46	17 39	25 56	6 ♍15	22 25	18 35	15 22	26 40	23 20	16 16
22	29 44	18 14	26 58	19 40	30	48	16 1	44	21	12
23	0♍42	18 50	27 57	2 ♎44	34	19 1	16 40	47	21	9
24	1 40	19 28	28 54	15 27	38	14	17 18	51	21	6
25	2 38	20 6	29 49	27 51	43	27	17 57	54	21	3
26	3 36	20 46	0♎41	10♏ 1	47	40	18 36	58	21	0
27	4 34	21 27	1 29	21 59	51	53	19 15	27 1	21	15 57
28	5 32	22 9	2 14	3 ♐52	22 55	20 6	19 54	27 5	23R21	15 53
29	6 30	22 52	2 55	15 43	59	19	20 33	8	21	50
30	7 28	23 35	3 32	27 39	23 3	32	21 12	12	21	47
31	8 26	24 20	4 5	9 ♑43	23 6	20 45	21 51	27 16	23 21	15 43

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1884

Full Moon August 6th in ♒ 14° 21′

Declination of the Planets

☉	S T	☉ N	♀ N	☿ N	☽ S	♄ N	♃ N	♂ S	♅ N	♆ N
1	8 42	17 52	16 25	13 7	17 43	21 44	17 12	0 46	2 25	16 54
2	45	17 37	27	12 26	18 33	44	8	1 1	24	54
3	49	17 21	29	11 45	18 33	44	4	1 16	23	54
4	53	17 5	30	11 4	17 42	45	0	1 32	21	54
5	57	16 48	32	10 22	16 1	45	56	1 47	20	54
6	9 1	16 32	34	9 41	13 33	45	52	2 3	19	54
7	9 5	16 15	16 37	9 0	10 23	21 46	16 49	2 19	2 17	16 55
8	9	15 58	39	8 19	6 40	45	45	2 34	16	55
9	13	15 41	41	7 38	2 34	46	41	2 49	15	55
10	17	15 23	44	6 58	1 N43	47	37	3 5	14	55
11	21	15 5	47	6 17	5 59	47	33	3 20	13	55
12	25	14 47	50	5 37	9 58	47	29	3 36	12	55
13	29	14 29	52	4 57	13 27	48	26	3 52	10	55
14	9 33	14 10	16 55	4 18	16 10	21 48	16 22	4 7	2 9	16 55
15	37	13 52	58	3 39	17 56	48	18	4 23	8	55
16	41	13 33	17 0	3 1	18 34	48	14	4 39	6	55
17	45	13 13	2	2 23	18 0	48	10	4 54	5	55
18	49	12 54	4	1 46	16 18	48	6	5 9	4	55
19	52	12 34	7	1 10	13 37	49	2	5 25	2	55
20	56	12 14	9	0 35	10 10	49	15 58	5 40	1 0	55
21	10 0	11 54	17 11	0 S 1	6 14	21 49	54	5 56	1 58	16 55
22	4	11 34	12	0 34	2 5	50	15 50	6 12	57	55
23	8	11 14	13	1 7	2 S 4	50	46	6 27	56	55
24	12	10 53	14	1 38	6 1	50	42	6 42	55	55
25	16	10 32	15	2 9	9 37	50	38	6 58	53	55
26	20	10 12	15	2 38	12 43	50	34	7 13	52	55
27	24	9 50	15	3 7	15 14	50	30	7 29	51	55
28	10 28	9 29	17 15	3 32	17 4	21 51	15 26	7 45	1 49	16 55
29	32	9 8	14	3 58	18 10	51	22	8 0	48	55
30	36	8 46	13	4 20	18 28	51	18	8 15	47	55
31	10 40	8 25	17 13	4 42	17 56	21 51	15 14	8 31	1 45	16 55

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1884

New Moon September 19th in ♍ 26° 55′

Longitude of the Planets

D	☉	☿	♀	♁	☽	♃	♄	♅	♆	♇	♈
	° ♍′	° ♎′	° ♓′	° ♑′	° ♈′	° ♊′	° ♌′	° ♓′	° ♍′	° ♑′	° ♓′
1	9 24	25 6	4 34	22 0	23 10	20 5	22 31	27 19	23R20	15 40	
2	10 22	25 52	4 58	4 ♒31	14	21 10	23 10	23	20	37	
3	11 20	26 40	5 18	17 20	17	23	23 49	27	20	34	
4	12 18	27 28	5 32	0 ♓27	21	36	24 29	30	19	31	
5	13 17	28 17	5 40	13 51	24	48	25 8	34	19	28	
6	14 15	29 6	5 R43	27 30	27	22 1	25 48	38	19	25	
7	15 13	29 57	5 40	11 ♈22	23 30	22 14	26 28	27 41	23 18	15 21	
8	16 11	0♌48	5 30	25 23	33	26	27 8	45	18	18	
9	17 10	1 40	5 14	9 ♉31	36	39	27 48	49	18	15	
10	18 8	2 33	4 51	23 43	39	51	28 28	53	17	12	
11	19 6	3 26	4 21	7 ♊56	41	23 4	29 8	56	16	9	
12	20 5	4 20	3 45	22 9	44	16	29 48	28 0	16	6	
13	21 3	5 14	3 2	6 ♋18	47	28	0♍28	4	15	3	
14	22 2	6 9	2 14	20 22	23 49	23 41	1 8	28 7	23 15	15 0	
15	23 0	7 5	1 20	4 ♌19	51	53	1 48	11	15	56	
16	23 59	8 1	0 22	18 6	53	24 5	2 29	15	14	14 53	
17	24 58	8 57	29♍20	1 ♍41	55	18	3 9	19	13	50	
18	25 56	9 54	28 9	15 2	57	30	3 50	23	12	47	
19	26 55	10 52	27 11	28 7	59	42	4 30	26	11	43	
20	27 54	11 50	26 8	10♎56	24 1	54	5 11	30	11	40	
21	28 53	12 49	25 6	23 30	24 3	25 6	5 52	28 34	23 11	14 37	
22	29 51	13 48	24 9	5 ♍49	4	18	6 33	38	9	34	
23	0♎50	14 47	23 17	17 55	6	30	7 14	41	8	30	
24	1 49	15 47	22 32	29 53	7	41	7 55	45	7	27	
25	2 48	16 47	21 56	11 ♐45	8	53	8 36	49	6	24	
26	3 47	17 48	21 28	23 37	9	26 5	9 17	53	5	20	
27	4 46	18 49	21 10	5 ♑32	10	16	9 58	56	4	17	
28	5 45	19 50	21D 3	17 35	24 11	26 28	10 39	29 0	23 3	14 14	
29	6 44	20 52	21 5	29 51	12	39	11 21	4	3	11	
30	7 43	21 54	21 18	12♒25	24 13	26 51	12 2	29 8	23 3	14 8	

Fellowship Press, Oceanside, Calif.

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1884

Full Moon September 5th in ♓ 13° 17′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♆	♇
		N	N	S	S	N	N	S	N	N
1	10 44	8 3	17 11	5 1	16 35	21 51	15 10	8 46	1 43	16 54
2	48	7 41	9	5 15	14 24	51	6	9 1	42	54
3	52	7 19	7	5 29	11 29	51	2	9 16	41	54
4	56	6 57	4	5 43	7 56	51	14 58	9 32	39	54
5	59	6 34	1	5 48	3 55	51	54	9 47	37	54
6	11 3	6 12	16 58	5 54	0 N23	51	50	10 2	35	54
7	11 7	5 49	16 54	6 0	4 44	21 52	14 46	10 17	1 34	16 54
8	11	5 27	50	5 55	8 52	52	42	10 32	33	54
9	15	5 4	45	5 50	12 32	52	38	10 47	32	54
10	19	4 41	40	5 46	15 29	52	34	11 2	30	53
11	23	4 19	34	5 29	17 28	52	30	11 17	28	53
12	27	3 56	28	5 12	18 22	52	26	11 32	26	53
13	31	3 33	21	4 56	18 7	52	22	11 47	25	53
14	11 35	3 10	16 14	4 27	16 45	21 52	14 18	12 2	1 24	16 53
15	39	2 46	7	3 58	14 24	52	14	12 17	23	53
16	43	2 23	15 59	3 30	11 16	52	11	12 31	21	52
17	47	2 0	50	2 52	7 34	52	7	12 45	19	52
18	51	1 37	41	2 14	3 33	52	3	12 59	17	52
19	55	1 13	32	1 37	0 S35	52	13 59	13 14	16	51
20	59	0 50	22	0 56	4 35	52	55	13 28	15	51
21	12 3	0 27	15 12	0 15	8 19	21 52	13 51	13 42	1 14	16 51
22	7	0 3	1	0 N25	11 37	52	47	13 56	12	51
23	10	0 S20	14 50	1 4	14 21	52	43	14 10	10	51
24	14	0 44	38	1 38	16 26	52	39	14 24	8	51
25	18	1 7	26	2 13	17 47	52	36	14 38	7	50
26	22	1 30	13	2 40	18 21	52	32	14 51	6	50
27	26	1 54	14 0	3 7	18 7	52	28	15 5	5	50
28	12 30	2 17	13 47	3 27	17 4	21 52	13 24	15 19	1 3	16 49
29	34	2 41	33	3 42	15 13	52	20	33	1	49
30	12 38	3 4	13 18	3 52	12 37	21 52	13 17	15 46	0 59	16 49

Fellowship Press, Oceanside, Calif.

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1884

Eclipse of Sun October 19th in ♎ 26° 31′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♃	♂	♅	♆	♇
	° ♎′	° ♌′	° ♍′	° ♒′	° ♊′	° ♌′	° ♍′	° ♍′	° ♑′	° ♎′
1	8 42	22 56	21 41	25 18	24 13	27 2	12 43	29 11	23R 0	14 5
2	9 41	23 59	22 14	8 ♓33	14	13	13 25	15	22 59	2
3	10 40	25 2	22 56	22 11	14	25	14 7	19	58	13 59
4	11 39	26 6	23 46	6 ♈10	14	36	14 48	23	57	55
5	12 38	27 9	24 44	20 26	14	47	15 30	27	56	52
6	13 37	28 13	25 50	4 ♉55	14	58	16 12	30	55	49
7	14 37	29 18	27 1	19 31	24R14	28 9	16 54	29 34	22 53	13 46
8	15 36	0♍23	28 18	4 ♊ 8	14	19	17 36	38	52	43
9	16 35	1 27	29 39	18 41	14	30	18 18	41	51	40
10	17 35	2 33	1 ♎ 5	3 ♋ 4	13	41	19 0	45	50	36
11	18 34	3 38	2 35	17 14	13	51	19 42	49	48	33
12	19 34	4 44	4 7	1 ♌ 9	12	29 2	20 24	52	46	30
13	20 33	5 50	5 41	14 50	11	12	21 6	56	45	27
14	21 33	6 56	7 18	28 15	24 10	29 22	21 49	0 ♎ 0	22 44	13 24
15	22 32	8 3	8 56	11♍25	9	33	22 31	3	43	21
16	23 32	9 9	10 35	24 21	8	43	23 14	7	41	17
17	24 31	10 16	12 16	7 ♎ 4	7	53	23 56	10	40	14
18	25 31	11 24	13 57	19 35	6	0 ♍ 3	24 39	14	39	11
19	26 31	12 31	15 38	1 ♏55	4	12	25 22	17	37	8
20	27 30	13 38	17 20	14 5	3	22	26 5	21	35	5
21	28 30	14 46	19 2	26 7	24 1	0 32	26 47	0 24	22 33	13 2
22	29 30	15 54	20 43	8 ♐ 2	0	41	27 30	28	32	12 58
23	0♏30	17 2	22 25	19 53	23 58	50	28 13	31	31	55
24	1 30	18 11	24 7	1 ♑44	56	1 0	28 56	35	30	52
25	2 30	19 19	25 48	13 37	54	9	29 39	38	28	49
26	3 30	20 28	27 29	25 38	52	18	0 ♐ 23	41	26	46
27	4 29	21 37	29 9	7 ♒50	49	27	1 6	45	24	43
28	5 29	22 46	0♏49	20 19	23 47	1 36	1 49	0 48	22 23	12 39
29	6 29	23 55	2 29	3 ♓ 8	44	44	2 32	51	21	36
30	7 29	25 5	4 8	16 22	42	53	3 16	54	19	33
31	8 30	26 15	5 47	0 ♈ 2	23 39	2 1	3 59	0 58	22 18	12 29

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1884

Eclipse of Moon October 4th in ♈ 11° 39′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♆	♇
		S	N	N	S	N	N	S	N	N
1	12 42	3 27	13 3	3 57	9 21	21 52	13 13	15 59	0 58	16 48
2	46	3 50	12 47	3 52	5 31	52	9	16 12	57	48
3	50	4 14	12 31	3 47	1 17	52	5	25	56	48
4	54	4 37	12 16	3 41	3 N 7	52	2	39	54	47
5	58	5 0	11 59	3 22	7 26	52	12 58	51	52	47
6	13 2	5 23	11 42	3 4	11 23	52	54	17 4	50	47
7	13 6	5 46	11 25	2 46	14 39	21 51	12 51	17 17	0 49	16 46
8	10	6 9	11 6	2 17	16 59	51	47	29	48	46
9	14	6 32	10 48	1 49	18 12	51	43	42	47	46
10	17	6 54	10 30	1 21	18 13	51	40	55	45	45
11	21	7 17	10 10	0 43	17 6	51	37	18 6	44	45
12	25	7 40	9 50	0 6	14 59	51	34	17	43	45
13	29	8 2	9 31	0 S 26	12 3	51	30	29	41	44
14	13 33	8 24	9 10	1 5	8 32	21 51	12 26	18 40	0 39	16 44
15	37	8 47	8 50	1 45	4 39	51	22	52	37	44
16	41	9 9	8 30	2 25	0 36	51	19	19 4	36	43
17	45	9 31	8 8	3 7	3 S 24	51	16	15	35	43
18	49	9 52	7 46	3 49	7 12	51	13	26	34	43
19	53	10 14	7 25	4 32	10 38	50	9	37	32	42
20	57	10 36	7 2	5 14	13 33	50	6	47	31	42
21	14 1	10 57	6 40	5 57	15 51	21 50	12 3	19 58	0 30	16 41
22	5	11 18	6 18	6 40	17 27	50	0	20 9	28	40
23	9	11 39	5 54	7 22	18 17	50	57	19	27	40
24	13	12 0	5 31	8 5	18 18	50	54	29	26	40
25	17	12 21	5 8	8 48	17 31	49	11 50	39	24	39
26	21	12 41	4 44	9 29	15 58	49	47	49	23	39
27	25	13 2	4 20	10 10	13 40	49	44	59	22	39
28	14 28	13 22	3 56	10 52	10 42	21 49	11 41	21 8	0 20	16 38
29	32	13 42	3 31	11 31	7 9	48	38	17	19	38
30	36	14 1	3 6	12 11	3 9	48	35	26	18	38
31	14 40	14 21	2 42	12 51	1 N 10	21 48	11 33	21 35	16	16 37

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1884

New Moon November 17th in ♏ 25° 35′

Longitude of the Planets

D	☉	☿	♂	♃	♄	♅	♆	♇	☊
	° ♏′	° ♏′	° ♏′	° ♈′	° ♓′	° ♍′	° ♐′	° ♉′	° ♑′
1	9 30	27 24	7 26	14 8	23R36	2 10	4 43	1 1	22R16	12 26
2	10 30	28 34	9 4	28 39	34	18	5 27	4	15	23
3	11 30	29 44	10 41	13 ♉ 29	31	26	6 10	7	13	20
4	12 30	0 ♐ 54	12 18	28 30	28	34	6 54	10	11	17
5	13 30	2 4	13 55	13 ♊ 34	25	42	7 38	13	10	14
6	14 30	3 15	15 32	28 32	21	49	8 22	16	8	10
7	15 31	4 25	17 8	13 ♋ 15	23 18	2 57	9 6	1 19	22 6	12 7
8	16 31	5 36	18 43	27 37	15	3 4	9 50	22	5	4
9	17 31	6 47	20 19	11 ♌ 36	11	12	10 34	25	3	1
10	18 32	7 58	21 54	25 12	♉	19	11 18	28	1	11 58
11	19 32	9 9	23 28	8 ♍ 26	4	26	12 2	31	0	55
12	20 33	10 21	25 3	21 21	0	33	12 46	34	21 58	51
13	21 33	11 32	26 37	3 ♐ 59	22 57	40	13 30	36	56	48
14	22 33	12 43	28 11	16 25	22 53	3 46	14 15	1 39	21 55	11 45
15	23 34	13 55	29 45	28 39	49	53	14 59	42	53	42
16	24 35	15 7	1 ♑ 18	10 ♍ 46	45	59	15 44	45	51	39
17	25 35	16 18	2 51	22 46	41	4 5	16 28	47	49	36
18	26 36	17 30	4 24	4 ♑ 42	37	11	17 12	50	48	32
19	27 36	18 42	5 57	16 34	32	17	17 57	52	46	29
20	28 37	19 54	7 30	28 25	28	23	18 42	55	44	26
21	29 38	21 7	9 3	10 ♎ 17	22 23	4 28	19 27	1 57	21 43	11 23
22	0 ♑ 38	22 19	10 34	22 11	19	33	20 12	2 0	41	20
23	1 39	23 31	12 6	4 ♒ 11	15	38	20 57	2	39	17
24	2 40	24 44	13 38	16 20	11	43	21 42	4	38	13
25	3 41	25 56	15 10	28 44	6	48	22 27	7	36	10
26	4 41	27 9	16 42	11 ♓ 26	1	53	23 12	9	34	7
27	5 42	28 22	18 13	24 30	21 57	57	23 57	11	33	4
28	6 43	29 34	19 44	8 ♈ 2	21 52	5 2	24 42	2 13	21 31	11 1
29	7 44	0 ♑ 47	21 15	22 2	47	6	25 27	15	30	10 58
30	8 44	2 0	22 46	6 ♉ 30	21 43	5 10	26 12	2 17	21 28	10 55

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1884

Full Moon November 3rd in ♉ 11° 30′

Declination of the Planets

D	S T	☉	☿	♀	☽	♄	♅	♂	♃	♆
		S	S	N	N	N	N	S	N	N
1	14 44	14 40	2 17	13 30	5 33	21 48	11 30	21 43	0 15	16 36
2	48	59	1 52	14 7	9 45	48	27	52	13	36
3	52	15 18	1 26	14 48	13 26	48	25	22 0	12	35
4	56	36	1 1	15 21	16 15	48	22	8	11	35
5	15 0	54	0 35	15 57	17 58	48	19	15	10	34
6	4	16 12	0 9	16 32	18 25	48	16	23	9	34
7	15 8	16 30	0 s17	17 6	17 37	21 47	11 14	22 30	0 8	16 33
8	12	47	0 43	17 38	15 41	47	11	37	7	33
9	16	17 4	1 9	18 11	12 53	47	9	44	6	32
10	20	21	1 35	18 42	9 27	47	7	51	4	32
11	24	38	2 2	19 13	5 37	46	5	58	3	31
12	28	54	2 28	19 42	1 37	46	2	23 4	2	31
13	32	18 10	2 55	20 11	2 s23	46	0	10	1	30
14	15 35	18 25	3 21	20 38	6 13	21 46	10 58	23 16	0 1	16 30
15	39	41	3 47	21 5	9 45	46	56	21	s 1	30
16	43	56	4 13	21 30	12 49	46	54	27	2	30
17	47	19 10	4 40	21 55	15 19	45	52	32	3	29
18	51	24	5 6	22 18	17 8	45	50	37	4	29
19	55	38	5 33	22 40	18 13	45	48	41	5	28
20	59	52	5 59	23 0	18 29	45	46	46	6	28
21	16 3	20 5	6 26	23 21	17 57	21 44	10 44	23 50	0 7	16 27
22	7	18	6 52	23 40	16 38	44	42	54	8	27
23	11	30	7 18	23 58	14 35	44	41	57	9	26
24	15	42	7 44	24 14	11 52	44	40	24 1	9	26
25	19	54	8 10	24 29	8 35	43	38	4	10	25
26	23	21 5	8 36	24 43	4 49	43	36	7	11	25
27	27	16	9 1	24 56	0 43	43	35	9	12	24
28	16 31	21 27	9 27	25 7	3 N34	21 43	34	12	0 13	16 24
29	35	37	9 52	25 17	7 48	42	32	14	14	24
30	16 39	21 46	10 17	25 25	11 44	21 42	10 31	24 15	0 15	24

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1884

New Moon December 17th in ♐ 26° 1′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♐′	° ♏′	° ♐′	° ♉′	° ♊′	° ♓′	° ♒′	° ♒′	° ♉′	° ♒′
1	9 45	3 13	24 16	21 24	21R38	5 14	26 58	2 19	21R26	10 51
2	10 46	4 26	25 46	6 ♊37	33	17	27 43	21	25	48
3	11 47	5 39	27 15	21 57	28	21	28 28	23	23	45
4	12 48	6 53	28 44	7 ♋15	24	24	29 14	25	22	41
5	13 49	8 6	0♑13	22 18	19	27	29 59	27	20	38
6	14 50	9 19	1 41	6 ♌58	14	30	0♑45	29	19	35
7	15 51	10 32	3 8	21 10	21 9	5 33	1 31	2 30	21 17	10 32
8	16 52	11 46	4 34	4 ♍53	4	35	2 16	32	16	29
9	17 53	12 59	5 59	18 8	20 59	38	3 2	34	14	26
10	18 54	14 13	7 23	0 ♎59	54	40	3 47	35	13	22
11	19 55	15 27	8 45	13 30	49	42	4 33	37	11	19
12	20 56	16 40	10 5	25 46	44	43	5 19	38	10	16
13	21 57	17 54	11 24	7 ♏50	39	45	6 5	39	8	13
14	22 58	19 8	12 40	19 48	20 34	5 46	6 51	2 41	21 7	10 10
15	23 59	20 21	13 53	1 ♐41	29	48	7 37	42	6	7
16	25 0	21 35	15 3	13 32	24	49	8 23	43	4	3
17	26 1	22 49	16 9	25 24	19	49	9 9	45	3	0
18	27 2	24 3	17 11	7 ♑16	15	50	9 56	46	2	9 57
19	28 3	25 17	18 7	19 12	10	51	10 42	47	0	54
20	29 5	26 31	18 58	1 ♒11	5	51	11 28	48	20 59	51
21	0 ♑ 6	27 45	19 42	13 16	20 0	5 51	12 14	2 49	20 58	9 48
22	1 7	28 59	20 18	25 29	19 55	51	13 0	50	57	44
23	2 8	0 ♐13	20 46	7 ♓53	50	R50	13 47	50	55	41
24	3 9	1 27	21 5	20 32	46	50	14 33	51	54	38
25	4 10	2 42	21 14	3 ♈30	41	49	15 20	52	53	35
26	5 11	3 56	21R11	16 51	37	48	16 6	53	52	31
27	6 13	5 10	20 57	0 ♉38	32	47	16 53	54	51	28
28	7 14	6 24	20 31	14 53	19 27	5 46	17 39	2 54	20 50	9 25
29	8 15	7 38	19 53	29 34	22	44	18 26	55	49	22
30	9 16	8 53	19 4	14♊37	18	42	19 12	55	48	19
31	10 17	10 7	18 5	29 54	19 13	5 40	19 59	2 55	20 47	9 16

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1884

Full Moon December 2nd in ♊ 10° 46′

Declination of the Planets

D	S T	☉	☿	♀	☽	♄	♅	♂	♆	♇
		S	S	S	N	N	N	S	S	N
1	16 42	21 56	10 42	25 32	15 2	21 42	10 30	24 17	0 16	16 23
2	46	22 4	11 7	37	17 22	42	29	18	16	23
3	50	13	11 32	42	18 27	41	28	19	17	23
4	54	21	11 56	44	18 13	41	27	20	17	23
5	58	28	12 20	46	16 41	41	26	21	18	22
6	17 2	35	12 44	46	14 6	41	25	21	18	22
7	17 6	22 42	13 8	25 45	10 44	21 40	10 24	24 21	0 19	16 21
8	10	48	13 31	41	6 53	40	24	21	19	21
9	14	54	13 54	37	2 49	40	23	20	20	21
10	18	59	14 17	30	1 S15	40	23	19	21	21
11	22	23 4	14 39	24	5 11	39	22	18	22	20
12	26	9	15 1	14	8 48	39	22	16	22	20
13	30	12	15 23	5	12 1	39	21	15	23	19
14	17 34	16	15 44	24 58	14 41	21 39	10 21	24 13	0 23	16 19
15	38	19	16 5	41	16 43	38	21	11	24	18
16	42	21	16 26	26	18 2	38	21	8	24	18
17	46	24	16 46	12	18 33	38	20	6	25	18
18	50	25	17 6	23 55	18 16	38	20	2	25	18
19	53	26	17 25	39	17 11	37	21	23 59	26	17
20	57	27	17 44	22	15 21	37	21	55	26	17
21	18 1	27	18 2	23 4	12 49	21 37	10 21	23 52	0 26	16 17
22	5	27	18 20	22 46	9 43	37	21	47	26	17
23	9	26	18 38	28	6 9	37	22	43	27	16
24	13	25	18 55	10	2 13	37	22	38	27	16
25	17	23	19 11	21 52	1 N54	36	23	34	27	16
26	21	21	19 27	36	6 3	36	23	28	27	16
27	25	18	19 43	19	10 1	36	24	23	28	15
28	18 29	15	19 58	21 4	13 32	21 35	10 24	23 17	0 28	16 15
29	33	12	20 12	20 50	16 19	35	25	11	28	15
30	37	8	20 26	38	18 3	35	26	4	28	15
31	18 41	3	20 39	20 27	18 31	21 35	10 27	22 58	0 28	16 14

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3780	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	35	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6679	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5692	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3395	16

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

	12	13	14	15	16	17	18	19	20	21	22	23
			1	2041	1761	1498	1249	1015	0792	0580	0378	0185
			6	36	56	93	45	11	88	77	75	82
			0	32	52	89	41	07	85	73	71	79
			5	27	47	85	37	03	81	70	68	75
			0	22	43	81	34	0999	77	66	64	72
			15	2017	1738	1476	1229	0996	0774	0563	0361	0169
			10	12	34	72	25	92	70	59	58	66
			05	08	29	68	21	88	66	56	55	63
			00	03	25	64	17	84	63	52	52	60
			95	1998	20	60	13	80	59	49	48	57
			89	1993	1716	1455	1209	0977	0756	0546	0345	0153
			84	89	11	51	05	73	52	42	42	50
			79	84	07	47	01	69	49	39	39	47
			74	79	02	43	1197	65	45	35	35	44
			69	74	1698	38	93	62	42	32	32	41
			64	1969	1694	1434	1189	0958	0738	0529	0329	0138
			59	65	89	30	85	54	34	25	26	35
			54	60	85	26	82	50	31	22	22	32
			49	55	80	22	78	47	27	18	19	29
			44	50	76	17	74	43	24	15	16	25
			39	1946	1671	1413	1170	0939	0720	0511	0313	0122
			34	41	67	09	66	35	17	08	09	19
			29	36	63	05	62	32	13	05	06	16
			23	32	58	01	58	28	09	01	03	13
			18	27	54	1397	54	24	06	0498	00	10
			13	1922	1649	1393	1150	0920	0702	0495	0296	0107
			08	17	45	88	46	17	0699	91	92	04
			03	13	40	84	42	13	95	88	90	01
			98	08	36	80	38	09	92	85	87	0098
			93	03	32	76	34	05	88	81	83	94
			88	1899	1627	1372	1130	0902	0685	0478	0280	0091
			83	94	23	68	26	0898	81	74	77	88
			78	90	19	63	23	94	78	71	74	85
			73	85	14	59	10	91	74	68	71	82
			68	80	10	55	15	87	70	64	67	79
			64	1875	1605	1351	1111	0883	0667	0461	0264	0076
			59	71	01	47	07	80	64	58	61	73
			54	66	1597	43	03	76	60	54	58	70
			49	62	92	39	1099	72	56	51	55	67
			44	57	88	35	95	68	53	48	51	64
			39	1852	1584	1331	1092	0865	0649	0444	0248	0061
			34	48	79	27	88	61	46	41	45	58
			29	43	75	22	84	57	42	37	42	55
			24	38	71	18	80	54	39	34	39	52
			19	34	66	14	76	50	35	31	35	48
			14	1829	1562	1310	1072	0846	0632	0428	0232	0045
			09	25	58	06	68	43	29	24	29	42
			04	20	53	02	64	39	25	21	26	39
			99	16	49	1298	61	35	21	18	23	36
			95	11	45	94	57	32	18	14	20	33
			90	1806	1540	1290	1053	0828	0614	0411	0216	0030
			85	02	36	86	49	24	11	08	13	27
			80	1797	32	82	45	21	08	04	10	24
			75	93	28	78	41	17	04	01	07	21
			70	88	23	74	37	14	01	0398	04	18
			65	1784	1519	1270	1034	0810	0597	0394	0201	0015
			61	79	15	66	30	06	94	91	0197	12
			56	74	10	61	26	03	90	88	94	09
			51	70	06	57	22	0799	87	84	91	06
			46	65	02	53	18	95	83	81	88	03

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THE MESSAGE OF THE STARS

By Max Heindel and Augusta Foss Heindel

A practical textbook for the student who is learning to read his chart. The fundamentals of astrological interpretation are given in clear, understandable language, of value to beginner and advanced student alike. The Keyword System of horoscopical analysis is outlined.

For the student who has learned the art of erecting his own chart and is interested in the planetary forces which will influence his future environment and activities, a simple method of *progression and prediction* is fully explained.

One section is devoted to Medical Astrology, in which the authors have given a system of medical diagnosis from the horoscope that is based on years of practical experience. Thirty-six example horoscopes are included.

Besides the technical information, this book contains vitally important information on the *evolutionary significance of the precession of the equinoxes,* and describes for us the path of evolution as shown in the zodiac.

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The Rosicrucian Fellowship,
Oceanside, California.

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1885

New Moon January 16th in ♑ 26° 35′

Longitude of the Planets

D	☉	☿	♂	♃	♄	♅	♆	♇	♈
	° ♑′	° ♐′	° ♑′	° ♌′	° ♊′	° ♍′	° ♒′	° ♉′	° ♒′
1	11 18	11 21	16R57	15 13	19R 9	5 R38	20 45	2 55	20R46	9 13
2	12 19	12 36	15 42	0 ♎24	5	36	21 32	55	45	10
3	13 21	13 50	14 23	15 15	0	33	22 19	55	44	7
4	14 22	15 5	13 2	29 39	18 56	31	23 6	56	43	3
5	15 23	16 19	11 42	13♏33	52	28	23 52	56	42	0
6	16 24	17 34	10 26	26 57	48	25	24 39	56	41	8 57
7	17 25	18 48	9 14	9 ♒53	18 44	5 22	25 26	2 56	20 41	8 54
8	18 26	20 3	8 10	22 27	40	19	26 13	R56	40	51
9	19 27	21 17	7 15	4 ♏42	36	15	27 0	56	39	48
10	20 29	22 32	6 29	16 44	32	11	27 47	56	38	44
11	21 30	23 46	5 52	28 38	28	7	28 34	55	38	41
12	22 31	25 1	5 26	10 ♐28	25	3	29 21	55	38	38
13	23 32	26 15	5 9	22 19	21	4 59	0 ♓ 8	55	37	35
14	24 33	27 30	5 1	4 ♑11	18 18	4 54	0 55	2 55	20 36	8 32
15	25 34	28 45	5 D 2	16 8	14	50	1 42	54	35	29
16	26 35	29 59	5 11	28 10	11	45	2 29	54	35	25
17	27 36	1♑14	5 27	10♒19	8	40	3 16	53	35	22
18	28 38	2 29	5 50	22 35	4	35	4 3	52	35	19
19	29 39	3 43	6 19	5 ♓ 0	1	30	4 50	52	34	16
20	0♒40	4 58	6 54	17 34	17 58	24	5 38	51	34	13
21	1 41	6 13	7 34	0 ♈21	17 56	4 18	6 25	2 50	20 34	8 10
22	2 42	7 27	8 19	13 23	53	13	7 12	49	33	6
23	3 43	8 42	9 7	26 42	50	7	7 59	48	33	3
24	4 44	9 57	10 0	10♉21	48	1	8 47	48	33	0
25	5 45	11 11	10 56	24 22	45	3 55	9 34	47	32	7 57
26	6 46	12 26	11 55	8 ♊44	43	49	10 21	45	32	54
27	7 47	13 41	12 57	23 26	40	42	11 8	44	32	51
28	8 48	14 56	14 1	8 ♋22	17 38	3 36	11 56	2 43	20 32	7 47
29	9 49	16 10	15 8	23 23	36	29	12 43	42	32	44
30	10 49	17 25	16 17	8 ♌21	34	22	13 30	41	32	41
31	11 50	18 40	17 28	23 5	17 32	3 16	14 18	2 40	20 32	7 37

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1885

Full Moon January 1st in ♋ 11° 18

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♅	♃	♆
		S	S	S	N	N	N	S	S	N
1	18 45	22 58	20 52	20 18	17 38	21 35	10 28	22 52	0 29	16 45
2	49	53	21 3	11	15 31	35	29	45	29	45
3	53	47	14	4	12 25	35	30	38	29	45
4	57	41	26	19 58	8 38	34	32	30	29	45
5	19 0	34	35	56	4 30	34	33	22	29	45
6	4	27	45	54	0 17	34	34	14	29	45
7	19 8	22 19	21 55	19 52	3 S48	21 34	10 36	22 5	0 29	16 45
8	12	11	22 3	54	7 36	34	37	21 57	29	45
9	16	2	11	56	10 59	34	38	48	29	45
10	20	21 53	19	58	13 51	33	40	39	28	45
11	24	44	24	20 3	16 5	33	42	29	28	45
12	28	34	30	8	17 38	33	44	19	28	45
13	32	24	36	14	18 25	33	46	10	28	45
14	19 36	21 13	22 39	20 22	18 23	21 33	10 48	21 0	0 28	16 45
15	40	2	43	30	17 33	33	50	20 50	28	45
16	44	20 51	47	38	15 57	32	51	39	27	45
17	48	39	49	46	13 37	32	53	28	27	45
18	52	27	51	54	10 39	32	55	17	26	45
19	56	14	52	21 3	7 12	32	58	6	26	46
20	20 0	1	52	11	3 23	32	11 0	19 54	26	46
21	20 4	19 48	22 52	21 19	0N 39	21 32	11 2	19 42	0 26	16 46
22	8	34	51	27	4 44	32	4	31	25	46
23	11	20	49	33	8 40	32	7	18	25	46
24	15	5	47	40	12 15	32	10	6	25	46
25	19	18 51	44	47	15 13	32	12	18 54	24	46
26	23	35	40	51	17 20	32	14	41	24	46
27	27	20	35	55	18 21	32	16	28	24	46
28	20 31	18 4	22 30	22 0	18 7	21 32	11 19	18 16	0 23	16 46
29	35	17 48	24	1	16 38	32	21	2	22	46
30	39	32	17	2	14 2	32	24	17 48	21	46
31	20 43	17 15	22 10	22 4	10 33	21 32	11 27	17 35	0 21	16 46

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1885

New Moon February 15th in ♒ 27° 1′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♒′	° ♑′	° ♑′	° ♏′	° ♊′	° ♏′	° ♒′	° ♒′	° ♑′	° ♒′
1	12 51	19 54	18 40	7 29	17R30	3 R 9	15 5	2 R38	20 32	7 34
2	13 52	21 9	19 55	21 27	29	2	15 52	37	32	31
3	14 53	22 24	21 11	4 ♒57	27	2 54	16 40	35	32	28
4	15 54	23 39	22 28	18 0	26	47	17 27	34	32	24
5	16 54	24 53	23 47	0 ♏40	25	40	18 15	32	32	21
6	17 55	26 8	25 7	13 0	24	32	19 2	31	32	18
7	18 56	27 23	26 29	25 5	17 22	2 25	19 49	2 29	20 33	7 15
8	19 57	28 38	27 51	7 ♐ 1	21	17	20 37	28	33	12
9	20 57	29 52	29 15	18 52	20	10	21 25	26	33	9
10	21 58	1 ♒7	0♒40	0 ♑44	20	2	22 12	24	34	5
11	22 59	2 22	2 6	12 38	19	1 54	22 59	22	34	2
12	23 59	3 37	3 33	24 39	18	47	23 47	20	34	6 59
13	25 0	4 51	5 1	6 ♒49	18	39	24 34	19	35	56
14	26 1	6 6	6 30	19 9	17 18	1 31	25 21	2 17	20 36	6 53
15	27 1	7 21	8 0	1 ♓40	17	23	26 9	15	36	50
16	28 2	8 36	9 31	14 23	17	15	26 56	13	37	46
17	29 2	9 50	11 3	27 17	D17	7	27 44	11	38	43
18	0 ♓ 3	11 5	12 35	10 ♈23	18	0	28 31	9	38	40
19	1 3	12 20	14 9	23 41	18	0 52	29 19	7	39	37
20	2 4	13 35	15 44	7 ♉12	18	44	0 ♓ 6	4	40	34
21	3 4	14 49	17 20	20 56	17 18	0 36	0 53	2 2	20 40	6 31
22	4 4	16 4	18 56	4 ♊54	19	28	1 41	0	41	27
23	5 5	17 19	20 34	19 4	20	20	2 28	1 58	42	24
24	6 5	18 33	22 12	3 ♋26	21	12	3 16	56	43	21
25	7 5	19 48	23 52	17 56	22	4	4 3	54	44	18
26	8 6	21 3	25 33	2 ♌29	23	29♌57	4 50	51	45	15
27	9 6	22 18	27 14	16 59	24	49	5 38	49	46	12
28	10 6	23 32	28 57	1 ♍20	17 25	29 41	6 25	1 47	20 47	6 8

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1885

No Full Moon in February

Declination of the Planets

D	S T	☉ S	♀ S	♂ S	☽ N	♄ N	♅ N	♃ S	♆ S	♇ N
1	20 47	16 58	22 2	22 3	6 30	21 32	11 30	17 21	0 21	16 12
2	51	40	21 53	22 0	2 13	32	33	6	20	12
3	55	23	44	21 57	2 s 2	32	36	16 52	20	12
4	59	5	35	21 54	6 4	32	38	38	19	13
5	21 3	15 46	23	21 48	9 41	32	41	23	18	13
6	7	28	12	21 41	12 47	32	44	8	18	13
7	21 11	15 9	21 1	21 34	15 16	21 33	11 46	15 54	0 17	16 13
8	15	14 50	20 48	21 24	17 3	33	49	38	16	13
9	18	31	35	21 14	18 5	33	52	23	16	13
10	22	11	22	21 4	18 20	33	55	8	15	13
11	26	13 52	7	20 49	17 46	33	58	14 52	14	13
12	30	32	19 52	20 35	16 25	33	12 1	36	14	13
13	34	12	37	20 21	14 19	34	3	21	13	14
14	21 38	12 51	19 20	20 3	11 33	21 34	12 6	14 5	0 12	16 14
15	42	31	3	19 45	8 13	34	9	13 49	11	14
16	46	10	18 47	19 27	4 28	34	12	33	10	14
17	50	11 49	28	19 5	0 27	34	15	16	9	14
18	54	28	10	18 43	3 N39	34	18	12 59	9	14
19	58	6	17 52	18 21	7 38	35	21	43	8	15
20	22 2	10 45	32	17 55	11 17	35	24	26	7	15
21	22 6	10 23	17 12	17 29	14 23	21 35	12 27	12 9	0 6	16 15
22	10	1	16 53	17 4	16 41	36	30	11 52	5	16
23	14	9 39	32	16 34	18 0	36	33	34	4	16
24	18	17	11	16 4	18 12	36	36	17	3	16
25	22	8 55	15 50	15 34	17 13	37	38	0	2	17
26	25	32	27	15 0	15 6	37	41	10 45	1	17
27	29	10	4	14 26	12 3	37	44	25	1	17
28	22 33	7 47	14 42	13 52	8 18	21 38	12 46	10 8	0 N 0	16 18

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March. 1885

Eclipse of Sun March 16th in ♓ 26° 5′

Longitude of the Planets

D	☉	♀	♂	♑	♄	♃	♂	♆	♇	☊
	° ♓′	° ♒′	° ♓′	° ♏′	° ♊′	° ♌′	° ♓′	° ♏′	° ♑′	° ♒′
1	11 6	24 47	0 41	15 27	17 26	29R33	7 12	1 R44	20 48	6 5
2	12 6	26 2	2 25	29 14	28	26	8 0	42	49	2
3	13 6	27 16	4 11	12♒40	29	18	8 47	39	50	5 59
4	14 6	28 31	5 58	25 44	31	11	9 34	37	51	55
5	15 6	29 45	7 46	8 ♎26	33	4	10 22	35	52	52
6	16 6	1 ♓ 0	9 35	20 50	35	28 56	11 9	32	53	49
7	17 6	2 15	11 25	3 ♐ 0	17 37	28 49	11 56	1 30	20 54	5 46
8	18 6	3 29	13 17	14 59	39	42	12 43	27	55	43
9	19 6	4 44	15 9	26 52	41	35	13 31	25	56	40
10	20 6	5 59	17 3	8 ♑45	44	28	14 18	22	58	36
11	21 6	7 13	18 58	20 41	46	21	15 5	20	59	33
12	22 6	8 28	20 53	2 ♒45	49	14	15 52	17	21 0	30
13	23 6	9 42	22 50	15 0	51	8	16 39	14	2	27
14	24 5	10 57	24 47	27 29	17 54	28 1	17 27	1 12	21 3	5 24
15	25 5	12 12	26 46	10♓14	57	27 55	18 14	9	4	21
16	26 5	13 26	28 45	23 14	18 0	49	19 1	7	6	17
17	27 4	14 41	0♈45	6 ♈31	3	43	19 48	4	8	14
18	28 4	15 55	2 45	20 2	6	37	20 35	2	10	11
19	29 4	17 10	4 46	3 ♉46	9	31	21 22	0 59	11	8
20	0 ♈ 3	18 24	6 46	17 41	13	25	22 9	56	13	5
21	1 3	19 39	8 47	1 ♊44	18 16	27 19	22 56	0 54	21 15	5 2
22	2 2	20 53	10 47	15 52	20	14	23 43	51	16	4 58
23	3 2	22 8	12 47	0 ♋ 4	23	9	24 30	48	17	55
24	4 1	23 22	14 45	14 17	27	4	25 17	46	18	52
25	5 1	24 37	16 42	28 29	31	26 59	26 3	43	20	49
26	6 0	25 51	18 37	12♌36	35	54	26 50	41	22	46
27	6 59	27 6	20 31	26 37	39	49	27 37	38	24	43
28	7 58	28 20	22 21	10♍29	18 43	26 45	28 24	0 35	21 26	4 39
29	8 58	29 35	24 9	24 9	47	41	29 11	33	28	36
30	9 57	0♈49	25 53	7 ♎34	52	36	29 57	30	30	33
31	10 56	2 3	27 33	20 44	18 56	26 32	0♈44	0 28	21 31	4 30

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Simplified Scientific
EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1885

Full Moon March 1st in ♍ 11° 6′

Eclipse of Moon March 30th in ♎ 9° 57′

Declination of the Planets

D	S T	☉	☿	♀	☽	♄	♅	♂	♃	♆
		S	S	S	N	N	N	S	N	N
1	22 37	7 24	14 19	13 15	4 9	21 38	12 49	9 50	0 1	16 18
2	41	7 1	13 54	12 35	0 s 9	38	52	32	2	18
3	45	6 38	13 30	11 56	4 20	38	55	14	3	18
4	49	6 15	13 6	11 17	8 11	39	57	8 56	4	19
5	53	5 52	12 41	9 54	11 33	39	13 0	38	5	19
6	57	5 29	12 16	9 31	14 19	39	3	20	6	19
7	23 1	5 6	11 51	9 8	16 22	21 40	13 5	8 2	0 7	16 20
8	5	4 42	11 24	8 21	17 41	41	7	7 43	8	20
9	9	4 19	10 58	7 34	18 12	41	9	25	9	21
10	13	3 55	10 32	6 47	17 55	42	12	7	10	21
11	17	3 32	10 5	5 56	16 51	42	14	6 48	11	21
12	21	3 8	9 38	5 5	15 1	42	16	29	12	21
13	25	2 44	9 11	4 15	12 30	43	19	11	13	22
14	23 29	2 21	8 43	3 21	9 21	21 43	13 21	5 52	0 14	16 23
15	33	1 57	8 15	2 28	5 43	43	23	33	15	23
16	36	1 33	7 48	1 35	1 44	44	26	15	16	24
17	40	1 10	7 19	0 39	2 N26	45	28	4 56	17	24
18	44	0 46	6 51	0 N 17	6 32	45	30	37	18	24
19	48	0 22	6 23	1 13	10 21	46	32	19	20	25
20	52	0 N 1	5 54	2 9	13 39	46	34	0	21	25
21	23 56	0 25	5 25	3 6	16 10	21 46	13 36	3 41	0 22	16 25
22	0 0	0 49	4 57	4 3	17 43	47	37	22	23	26
23	4	1 12	4 27	4 59	18 11	48	39	3	24	27
24	8	1 36	3 58	5 55	17 30	48	41	2 44	25	27
25	12	2 0	3 29	6 52	15 44	49	42	25	26	28
26	16	2 23	2 59	7 46	13 2	50	44	6	27	28
27	20	2 47	2 29	8 40	9 35	50	46	1 47	28	28
28	0 24	3 10	2 0	9 34	5 38	21 51	13 47	1 29	0 29	16 29
29	28	3 32	1 30	10 23	1 26	51	48	10	30	30
30	32	3 57	1 0	11 12	2 s46	51	49	0 51	31	30
31	0 36	4 20	0 31	12 1	6 45	21 52	13 51	0 32	0 32	16 31

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April. 1885

New Moon April 15th in ♈ 25° 40'

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♈ ′	° ♈ ′	° ♈ ′	° ♌ ′	° ♍ ′	° ♊ ′	° ♌ ′	° ♈ ′	° ♏ ′	° ♏ ′
1	11 55	3 18	29 10	3 38	19 0	26R29	1 30	0 R25	21 33	4 26
2	12 54	4 32	0 ♉ 41	16 15	5	25 2	17	23	35	23
3	13 53	5 46	2 8	28 38	9	21	3 4	20	37	20
4	14 52	7 1	3 30	10 ♌ 48	14	18	3 50	18	38	17
5	15 51	8 15	4 47	22 48	19	15	4 37	15	40	14
6	16 50	9 29	5 58	4 ♍ 43	24	12	5 23	13	42	11
7	17 49	10 44	7 3	16 36	19 29	26 9	6 10	0 10	21 44	4 7
8	18 48	11 58	8 3	28 32	34	7	6 56	8	46	4
9	19 47	13 12	8 56	10 ♎ 36	39	4	7 42	5	48	1
10	20 46	14 26	9 43	22 53	44	2	8 29	3	50	3 58
11	21 45	15 41	10 24	5 ♐ 25	49	0	9 15	1	52	55
12	22 43	16 55	10 58	18 18	55	25 58	10 1	29♏58	54	52
13	23 42	18 9	11 28	1 ♑ 31	20 0	57	10 47	56	56	48
14	24 41	19 23	11 50	15 6	20 5	25 55	11 34	29 54	21 58	3 45
15	25 40	20 38	12 5	29 1	11	54	12 20	51	22 0	42
16	26 38	21 52	12 15	13 ♒ 12	17	53	13 6	49	2	39
17	27 37	23 6	12 18	27 36	22	52	13 52	47	4	36
18	28 36	24 20	12R16	12♊ 6	28	51	14 38	45	6	33
19	29 34	25 34	12 7	26 36	34	51	15 24	43	8	29
20	0 ♉ 33	26 49	11 54	11♋ 2	40	51	16 10	41	10	26
21	1 31	28 3	11 35	25 19	20 46	25 51	16 56	29 38	22 12	3 23
22	2 30	29 17	11 12	9 ♌ 24	52	D51	17 42	36	15	19
23	3 28	0 ♉ 31	10 44	23 17	58	51	18 27	34	17	16
24	4 26	1 45	10 13	6 ♍ 56	21 4	51	19 13	32	19	13
25	5 25	2 59	9 41	20 23	10	51	19 59	30	21	10
26	6 23	4 13	9 2	3 ♎ 37	17	52	20 44	28	23	7
27	7 21	5 27	8 24	16 38	23	53	21 30	27	25	4
28	8 19	6 41	7 45	29 28	21 29	25 54	22 15	29 25	22 28	3 0
29	9 18	7 55	7 6	12♍ 5	36	55	23 1	23	30	2 57
30	10 16	9 9	6 27	24 31	21 42	25 57	23 46	29 21	22 32	2 54

Fellowship Press, Oceanside, Calif.

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1885

Full Moon April 29th in ♏ 9° 18′

Declination of the Planets

☽	S T	☉	☿	♂	☽	♄	♃	♂	♅	♆
		N	S	N	S	N	N	S	N	N
1	0 40	4 43	0 1	12 46	10 19	21 53	13 52	0 13	0 33	16 31
2	43	5 6	0 N30	13 26	13 21	53	53	0 23	34	32
3	47	5 29	0 59	14 6	15 42	53	54	0 33	35	32
4	51	5 52	1 29	14 46	17 18	54	55	0 44	36	33
5	55	6 15	1 58	15 17	18 6	55	56	1 2	37	33
6	59	6 37	2 28	15 49	18 6	55	57	1 21	38	33
7	1 3	7 0	2 58	16 21	17 18	21 56	13 58	1 40	0 39	16 34
8	7	7 22	3 27	16 44	15 45	57	59	1 58	40	35
9	11	7 45	3 57	17 7	13 29	57	59	2 17	41	36
10	15	8 7	4 27	17 30	10 35	58	14 0	2 36	42	36
11	19	8 29	4 56	17 43	7 8	59	0	2 54	43	37
12	23	8 51	5 25	17 56	3 16	59	0	3 13	44	38
13	27	9 13	5 55	18 9	0 N52	22 0	1	3 32	44	38
14	1 31	9 34	6 24	18 12	5 4	22 0	14 1	3 50	0 45	16 38
15	35	9 56	6 53	18 16	9 6	0	1	4 8	46	38
16	39	10 17	7 22	18 20	12 41	1	2	4 27	47	39
17	43	10 38	7 50	18 14	15 33	2	2	4 45	48	40
18	47	10 59	8 19	18 8	17 27	2	2	5 3	49	41
19	51	11 20	8 48	18 3	18 14	3	3	5 22	49	41
20	54	11 40	9 15	17 48	17 49	4	3	5 40	50	42
21	1 58	12 1	9 43	17 33	16 17	22 4	14 3	5 58	0 51	16 43
22	2 2	12 21	10 11	17 18	13 46	5	2	6 16	52	43
23	6	12 41	10 38	16 55	10 31	6	2	6 34	53	43
24	10	13 1	11 5	16 33	6 43	6	2	6 52	54	43
25	14	13 20	11 33	16 11	2 39	7	1	7 10	54	44
26	18	13 39	11 59	15 43	1 S30	7	1	7 27	55	45
27	22	13 59	12 25	15 16	5 32	7	1	7 44	56	46
28	2 26	14 17	12 52	14 49	9 14	22 8	14 0	8 2	0 56	16 46
29	30	14 36	13 17	14 20	12 27	8	0	8 19	57	46
30	2 34	14 54	13 43	13 51	15 3	22 8	14 0	8 36	0 58	16 46

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1885

New Moon May 14th in ♉ 23° 48′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♉′	° ♉′	° ♉′	° ♑′	° ♐′	° ♏′	° ♈′	° ♍′	° ♉′	° ♒′
1	11 14	10 23	5 R50	6 ♑ 47	21 49	25 59	24 32	29R19	22 34	2 51
2	12 12	11 37	5 14	18 53	55	26 1	25 17	18	36	48
3	13 10	12 51	4 41	0 ♒51	22 2	3	26 2	16	38	45
4	14 8	14 5	4 10	12 46	9	5	26 48	14	41	42
5	15 6	15 19	3 43	24 37	15	7	27 33	13	43	39
6	16 4	16 33	3 20	6 ♓32	22	10	28 18	11	45	36
7	17 2	17 47	3 0	18 35	22 29	26 12	29 3	29 10	22 48	2 32
8	18 0	19 1	2 45	0 ♈49	36	15	29 48	8	50	29
9	18 58	20 15	2 34	13 20	43	18	0 ♉ 33	7	52	26
10	19 56	21 29	2 28	26 13	50	22	1 18	6	55	23
11	20 54	22 43	2 27	9 ♉30	57	25	2 3	4	57	20
12	21 52	23 57	2 D30	23 14	23 4	29	2 48	3	59	17
13	22 50	25 10	2 37	7 ♉24	11	32	3 33	2	23 1	13
14	23 48	26 24	2 50	21 56	23 18	26 36	4 18	29 1	23 3	2 10
15	24 46	27 38	3 6	6 ♊44	25	40	5 2	0	5	7
16	25 44	28 52	3 27	21 40	32	45	5 47	28 58	8	3
17	26 41	0♊ 6	3 53	6 ♋35	40	49	6 32	57	10	0
18	27 39	1 20	4 23	21 21	47	54	7 16	57	12	1 57
19	28 37	2 34	4 56	5 ♌51	54	58	8 1	56	15	54
20	29 35	3 47	5 34	20 2	24 2	27 3	8 45	55	17	51
21	0♊32	5 1	6 15	3 ♍52	24 9	27 8	9 29	28 54	23 19	1 48
22	1 30	6 15	7 1	17 22	16	13	10 14	53	22	44
23	2 27	7 29	7 50	0 ♎34	24	19	10 58	52	24	41
24	3 25	8 43	8 42	13 29	31	24	11 42	52	26	38
25	4 23	9 56	9 38	26 12	39	30	12 26	51	28	35
26	5 20	11 10	10 37	8 ♏43	46	36	13 11	51	30	32
27	6 18	12 24	11 39	21 5	54	42	13 55	50	32	29
28	7 15	13 37	12 44	3 ♐18	25 1	27 48	14 39	28 50	23 35	1 25
29	8 13	14 51	13 53	15 24	9	54	15 22	49	37	22
30	9 10	16 5	15 5	27 24	16	28 0	16 6	49	39	19
31	10 8	17 19	16 19	9 ♑19	25 24	28 7	16 50	28 49	23 41	1 16

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1885

Full Moon May 28th in ♐ 7° 15′

Declination of the Planets

☉	S T	☉ N	♀ N	♂ N	☽ S	♄ N	♅ N	♃ N	♆ N	♇ N
1	2 38	15 13	14 9	13 23	16 55	22 10	13 58	8 54	0 58	16 48
2	42	31	14 33	12 56	18 1	11	57	9 11	59	48
3	46	48	14 57	29	18 18	11	56	28	1 0	48
4	50	16 6	15 22	2	17 46	12	56	45	0	49
5	54	23	15 45	11 39	16 27	12	55	10 1	1	50
6	58	40	16 8	16	14 26	12	54	18	1	51
7	3 1	56	16 32	10 54	11 47	22 13	13 53	10 35	1 2	16 51
8	5	17 12	16 54	38	8 34	14	52	51	3	52
9	9	28	17 16	22	4 53	14	51	11 7	4	53
10	13	44	17 38	7	0 53	15	49	24	4	53
11	17	18 0	17 58	9 58	3 N18	15	48	40	4	54
12	21	15	18 19	49	7 26	15	47	56	4	55
13	25	30	18 40	41	11 17	16	45	12 12	5	55
14	3 29	18 44	18 59	9 40	14 34	22 16	13 44	12 27	1 5	16 55
15	33	58	19 18	39	16 57	17	43	42	5	55
16	37	19 12	19 37	38	18 12	18	41	58	6	56
17	41	26	19 54	43	18 12	18	39	13 13	6	57
18	45	39	20 12	49	16 58	18	37	28	6	58
19	49	52	20 30	55	14 39	19	35	44	7	58
20	53	20 4	20 46	10 7	11 30	19	33	58	7	58
21	3 57	20 17	21 2	10 19	7 46	22 19	13 31	14 13	1 7	16 58
22	4 1	28	21 18	31	3 43	20	30	14 28	8	59
23	5	40	21 32	48	0 S25	20	28	42	8	17 0
24	9	51	21 46	11 5	4 28	20	26	56	8	1
25	12	21 2	22 0	23	8 15	22	24	15 11	9	1
26	16	12	22 12	44	11 36	22	22	24	9	2
27	20	22	22 24	12 6	14 23	22	20	38	9	3
28	4 24	21 32	22 37	12 28	16 30	22 23	13 17	15 52	1 9	17 3
29	28	41	22 47	53	17 52	23	15	16 5	9	3
30	32	50	22 57	13 19	18 25	23	13	18	9	3
31	4 36	21 59	23 8	13 45	18 9	22 24	13 10	16 32	1 10	17 4

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1885

New Moon June 12th in ♊ 21° 36′

Longitude of the Planets

☽	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♊′	° ♊′	° ♉′	° ♈′	° ♊′	° ♌′	° ♉′	° ♍′	° ♉′	° ♒′
1	11 5	18 32	17 36	21 11	25 32	28 13	17 34	28R48	23 44	1 13
2	12 3	19 46	18 57	3 ♒ 3	39	20	18 18	48	46	10
3	13 0	21 0	20 20	14 57	47	27	19 1	48	48	7
4	13 57	22 13	21 46	26 58	55	34	19 45	48	50	3
5	14 55	23 27	23 14	9 ♓ 10	26 2	41	20 28	48	52	0
6	15 52	24 41	24 46	21 38	10	49	21 12	48	54	0 57
7	16 50	25 54	26 20	4 ♈ 27	26 18	28 56	21 55	28D48	23 56	0 54
8	17 47	27 8	27 57	17 42	26	29 3	22 39	48	58	51
9	18 44	28 22	29 36	1 ♉ 25	33	11	23 22	48	24 0	48
10	19 42	29 35	1♊19	15 37	41	19	24 5	48	3	44
11	20 39	0♋49	3 4	0 ♊ 16	49	27	24 49	49	5	41
12	21 36	2 2	4 51	15 17	57	35	25 32	49	7	38
13	22 34	3 16	6 41	0 ♋ 29	27 5	43	26 15	49	9	35
14	23 31	4 30	8 34	15 43	27 12	29 51	26 58	28 50	24 11	0 32
15	24 28	5 43	10 29	0 ♌ 47	20	0 ♍ 0	27 41	50	13	29
16	25 26	6 57	12 27	15 33	28	8	28 24	51	15	25
17	26 23	8 11	14 28	29 56	36	17	29 7	52	17	22
18	27 20	9 24	16 28	13♍52	44	25	29 50	52	19	19
19	28 17	10 38	18 32	27 22	51	34	0 ♊ 32	53	21	15
20	29 15	11 51	20 38	10♎30	59	43	1 15	54	23	13
21	0♋12	13 5	22 45	23 17	28 7	0 52	1 58	28 54	24 25	0 10
22	1 9	14 18	24 54	5 ♍ 49	15	1 1	2 40	55	27	6
23	2 6	15 32	27 3	18 9	22	11	3 23	56	29	3
24	3 3	16 45	29 14	0 ♐ 19	30	20	4 5	57	31	0
25	4 1	17 59	1♋24	12 22	38	29	4 47	58	32	29 57
26	4 58	19 12	3 36	24 20	46	39	5 30	59	34	♍54
27	5 55	20 26	5 47	6 ♑15	54	48	6 12	29 0	36	51
28	6 52	21 40	7 57	18 8	29 2	1 58	6 54	29 2	24 37	29 47
29	7 49	22 53	10 7	0 ♒ 0	9	2 8	7 36	3	39	44
30	8 47	24 7	12 17	11 53	29 17	2 18	8 18	29 4	24 41	29 41

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1885

Full Moon June 27th in ♈ 5° 55′

Declination of the Planets

D.	S T	☉ N	♀ N	♂ N	☽ S	♄ N	♅ N	♆ N	♇ N
1	4 40	22 7	23 17	14 12	17 5	22 24	13 8	16 45	1 10	17 5
2	44	15	24	14 41	15 17	24	5	16 57	10	5
3	48	22	32	15 1	12 50	24	2	17 10	10	5
4	52	29	40	15 40	9 50	25	0	17 23	10	6
5	56	36	45	16 10	6 21	25	12 57	17 35	10	7
6	5 0	42	51	16 41	2 31	25	54	17 47	10	8
7	5 4	22 48	23 57	17 12	1 N32	22 26	12 52	17 59	1 10	17 8
8	8	53	24 0	17 43	5 39	26	49	18 10	10	8
9	12	58	4	18 14	9 36	26	46	18 22	10	8
10	16	23 3	8	18 45	13 10	27	44	18 34	9	9
11	19	7	9	19 15	16 0	27	41	18 45	9	10
12	23	11	10	19 46	17 50	27	38	18 56	9	11
13	27	15	12	20 17	18 26	28	35	19 7	9	11
14	5 31	23 18	24 11	20 45	17 43	22 28	12 32	19 17	1 9	17 11
15	35	20	10	21 13	15 45	28	29	19 27	9	11
16	39	22	9	21 42	12 47	29	26	19 38	8	12
17	43	24	6	22 6	9 6	29	23	19 48	8	13
18	47	25	3	22 30	5 1	29	20	19 58	8	14
19	51	26	0	22 54	0 48	30	16	20 8	7	14
20	55	27	23 55	23 12	3 S20	30	13	20 17	7	14
21	5 59	23 27	23 50	23 31	7 14	22 30	12 10	20 26	1 7	17 14
22	6 3	27	45	23 50	10 42	30	6	20 36	6	15
23	7	26	38	24 1	13 40	30	3	20 44	6	15
24	11	25	31	24 12	15 58	30	0	20 53	6	15
25	15	23	24	24 24	17 34	31	11 56	21 2	5	16
26	19	21	15	24 27	18 22	31	53	21 10	4	16
27	23	19	6	24 30	18 21	31	50	21 18	3	16
28	6 26	23 16	22 56	24 32	17 32	22 31	11 46	21 26	1 3	17 17
29	30	13	45	24 27	15 58	31	43	21 33	2	17
30	6 34	23 10	22 34	24 22	13 42	22 31	11 40	21 40	1 2	17 17

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1885

New Moon July 12th ♋ 20° 13

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♆	♇	☊
	° ♋′	° ♋′	° ♋′	° ♒′	° ♊′	° ♍′	° ♊′	° ♍′	° ♑′	° ♍′
1	9 44	25 20	14 25	23 49	29 25	2 28	9 0	29 5	24 43	29 37
2	10 41	26 33	16 32	5 ♓52	32	38	9 42	7	45	34
3	11 38	27 47	18 38	18 6	40	48	10 24	8	47	31
4	12 35	29 0	20 42	0 ♈33	48	58	11 6	10	48	28
5	13 32	0♌13	22 45	13 20	56	3 9	11 48	11	50	25
6	14 30	1 27	24 46	26 30	0 ♋ 3	19	12 30	13	52	22
7	15 27	2 41	26 45	10 ♉ 7	0 11	3 30	13 11	29 14	24 53	29 18
8	16 24	3 54	28 43	24 13	18	40	13 53	16	54	15
9	17 21	5 7	0♌38	8 ♊47	26	51	14 35	18	55	12
10	18 19	6 21	2 32	23 44	34	4 2	15 16	19	57	9
11	19 16	7 34	4 24	8 ♋57	41	12	15 57	21	59	6
12	20 13	8 48	6 14	24 15	49	23	16 39	23	25 1	3
13	21 10	10 1	8 2	9 ♌28	56	34	17 20	25	2	28 59
14	22 8	11 14	9 48	24 24	1 4	4 45	18 1	29 27	25 3	28 56
15	23 5	12 28	11 33	8 ♍57	11	56	18 43	29	4	53
16	24 2	13 41	13 15	23 2	19	5 7	19 24	31	6	50
17	24 59	14 54	14 56	6 ♎39	26	19	20 5	33	7	47
18	25 57	16 8	16 34	19 50	33	30	20 46	35	8	44
19	26 54	17 21	18 11	2 ♏38	41	41	21 27	37	10	40
20	27 51	18 34	19 46	15 7	48	53	22 8	39	11	37
21	28 48	19 48	21 19	27 21	1 55	6 4	22 48	29 42	25 12	28 34
22	29 46	21 1	22 50	9 ♐26	2 3	16	23 29	44	13	31
23	0♌43	22 14	24 19	21 23	10	27	24 10	46	14	28
24	1 40	23 27	25 47	3 ♑17	17	39	24 50	49	15	25
25	2 38	24 41	27 12	15 9	24	51	25 31	51	17	21
26	3 35	25 54	28 35	27 2	31	7 3	26 11	54	18	18
27	4 32	27 7	29 57	8 ♒57	38	14	26 52	56	19	15
28	5 30	28 20	1♍16	20 55	2 45	7 26	27 32	29 59	25 20	28 12
29	6 27	29 33	2 34	2 ♓59	52	38	28 12	0 ♎ 1	21	9
30	7 24	0♍47	3 48	15 10	59	50	28 53	4	22	6
31	8 22	2 0	5 1	27 31	3 6	8 2	29 33	0 7	25 23	28 2

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1885

Full Moon July 27th in ♒ 4° 32′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ S	♄ N	♃ N	♂ N	♅ N	♆ N
1	6 38	23 6	22 22	24 17	10 52	22 31	11 35	21 48	1 2	17 19
2	42	1	22 9	24 4	7 33	31	31	55	1	19
3	46	22 56	21 56	23 51	3 51	31	27	22 2	0	19
4	50	51	21 43	23 38	0 N 4	32	23	9	0	20
5	54	46	21 27	23 18	4 5	32	20	15	0 59	20
6	58	40	21 12	22 58	8 1	32	16	21	58	20
7	7 2	22 33	20 57	22 38	11 40	22 32	11 12	22 27	0 58	17 21
8	6	27	20 40	22 12	14 47	32	8	32	57	21
9	10	19	20 23	21 47	17 5	32	4	38	56	21
10	14	12	20 7	21 22	18 17	32	0	44	56	22
11	18	4	19 48	20 52	18 13	32	10 56	49	55	22
12	22	21 56	19 30	20 22	16 49	32	52	54	54	22
13	26	47	19 12	19 53	14 15	32	48	59	54	23
14	7 30	21 38	18 52	19 20	10 46	22 32	10 44	23 3	0 53	17 23
15	34	28	18 32	18 47	6 43	32	40	7	52	23
16	37	19	18 12	18 15	2 24	32	36	12	51	24
17	41	9	17 50	17 40	1 S54	32	32	15	50	24
18	45	20 58	17 28	17 5	5 58	32	28	19	49	24
19	49	47	17 7	16 30	9 38	32	23	23	48	24
20	53	36	16 44	15 53	12 47	32	19	26	47	24
21	7 57	20 24	16 21	15 17	15 18	22 32	10 15	23 29	0 46	17 24
22	8 1	13	15 58	14 41	17 6	32	10	32	46	25
23	5	0	15 34	14 4	18 8	32	6	34	45	25
24	9	19 48	15 10	13 27	18 22	32	2	36	44	25
25	13	35	14 46	12 50	17 47	31	9 57	39	43	26
26	17	22	14 20	12 13	16 27	31	53	41	42	26
27	21	8	13 54	11 36	14 23	31	49	43	41	26
28	8 25	18 54	13 29	10 59	11 42	22 31	9 44	23 45	0 40	17 26
29	29	40	13 2	10 22	8 30	31	40	46	39	26
30	33	26	12 36	9 46	4 55	31	35	47	38	26
31	8 37	18 11	12 10	9 10	1 5	22 31	9 30	23 48	0 36	17 27

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1885

New Moon August 10th in ♌ 17° 57′

Longitude of the Planets

D.	☉	☿	♀	♂	☽	♃	♄	♅	♆	♇	☊
	° ♌′	° ♍′	° ♍′	° ♈′	° ♑′	° ♍′	° ♑′	° ♓′	° ♉′	° ♉′	° ♍′
1	9 19	3 13	6 12	10 5	3 13	8 14	0 13	0 9	25 24	27 59	
2	10 17	4 26	7 20	22 55	20	26	0 53	12	25	56	
3	11 14	5 39	8 26	6 ♉ 5	26	39	1 33	15	26	53	
4	12 12	6 52	9 29	19 38	33	51	2 13	18	26	49	
5	13 9	8 5	10 30	3 ♊ 35	40	9 3	2 53	20	27	46	
6	14 7	9 18	11 27	17 56	46	15	3 33	23	28	43	
7	15 4	10 31	12 23	2 ♋ 39	3 53	9 28	4 12	0 26	25 28	27 40	
8	16 2	11 44	13 14	17 38	59	40	4 52	29	29	37	
9	16 59	12 57	14 3	2 ♌ 45	4 6	52	5 32	32	30	34	
10	17 57	14 10	14 49	17 50	12	10 5	6 11	35	30	30	
11	18 55	15 23	15 31	2 ♍ 43	19	17	6 51	38	31	27	
12	19 52	16 36	16 9	17 17	25	30	7 30	41	32	20	
13	20 50	17 49	16 44	1 ♎ 27	31	42	8 9	44	32	21	
14	21 48	19 2	17 14	15 10	4 37	10 55	8 49	0 47	25 33	27 18	
15	22 45	20 15	17 40	28 27	43	11 8	9 28	50	33	15	
16	23 43	21 28	18 1	11 ♏ 19	49	20	10 7	54	33	11	
17	24 41	22 41	18 18	23 51	55	33	10 46	57	33	8	
18	25 38	23 53	18 29	6 ♐ 6	5 1	46	11 25	1 0	33	5	
19	26 36	25 6	18 35	18 9	7	58	12 4	3	34	2	
20	27 34	26 19	18 36	0 ♑ 5	13	12 11	12 43	7	84	26 59	
21	28 32	27 32	18R31	11 58	5 19	12 24	13 22	1 10	25 34	26 56	
22	29 30	28 44	18 20	23 50	24	37	14 1	13	35	52	
23	0 ♍ 27	29 57	18 3	5 ♒ 45	30	50	14 39	17	35	49	
24	1 25	1 ♎ 10	17 41	17 45	36	13 2	15 18	20	35	46	
25	2 23	2 22	17 12	29 52	41	15	15 56	23	36	43	
26	3 21	3 35	16 38	12 ♓ 7	46	28	16 34	27	36	40	
27	4 19	4 47	15 58	24 32	52	41	17 13	31	36	37	
28	5 17	6 0	15 13	7 ♈ 9	5 57	13 54	17 51	1 34	25R36	26 33	
29	6 15	7 13	14 24	19 58	6 2	14 7	18 29	37	36	30	
30	7 13	8 25	13 31	3 ♉ 1	7	20	19 8	41	36	27	
31	8 11	9 37	12 36	16 20	6 12	14 33	19 46	1 49	25 36	26 25	

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August. 1885

Full Moon August 25th in ♌ 2° 23′

Declination of the Planets

D	S T	☉ N	♀ N	♂ N	☽ N	♄ N	♅ N	♆ N	♇ N
1	8 41	17 56	11 43	8 34	2 52	22 31	9 26	23 49	0 35	17 27
2	44	17 40	11 15	7 59	6 46	31	22	49	34	27
3	48	17 25	10 47	7 25	10 26	31	17	49	33	27
4	52	17 9	10 20	6 51	13 40	30	12	50	31	27
5	56	16 53	9 51	6 18	16 12	30	8	50	30	27
6	9 0	16 36	9 23	5 46	17 49	30	3	50	29	27
7	9 4	16 19	8 55	5 14	18 18	22 30	8 58	23 50	0 28	17 28
8	8	16 2	8 25	4 45	17 31	30	54	49	27	28
9	12	15 45	7 56	4 16	15 31	30	49	48	26	28
10	16	15 27	7 27	3 47	12 27	29	44	47	25	28
11	20	15 10	6 57	3 22	8 36	29	40	46	24	28
12	24	14 52	6 27	2 57	4 18	29	35	45	23	28
13	28	14 33	5 58	2 32	0 s 7	29	30	43	21	29
14	9 32	14 15	5 28	2 12	4 23	22 29	8 25	23 41	0 20	17 29
15	36	13 56	4 58	1 52	8 18	29	20	39	19	29
16	40	13 37	4 28	1 33	11 42	28	15	37	17	29
17	44	13 18	3 57	1 20	14 27	28	11	35	16	29
18	48	12 59	3 26	1 7	16 30	28	6	33	15	29
19	52	12 39	2 56	0 54	17 47	27	1	30	13	29
20	55	12 19	2 25	0 49	18 15	27	7 56	27	12	29
21	9 59	11 59	1 54	0 44	17 55	22 27	7 51	23 24	0	17 29
22	10 3	11 39	1 24	0 39	16 48	27	46	21	9	29
23	7	11 19	0 53	0 44	14 58	27	41	17	8	29
24	11	10 58	0 22	0 49	12 27	27	36	13	7	29
25	15	10 38	0 s 9	0 54	9 24	26	31	10	5	29
26	19	10 17	0 40	1 9	5 53	26	26	6	4	29
27	23	9 56	1 11	1 24	2 5	26	21	2	3	29
28	10 27	9 35	1 43	1 40	1 n52	22 25	7 16	22 58	0 1	17 28
29	31	9 13	2 14	2 5	5 47	25	11	54	0	28
30	35	8 52	2 45	2 30	9 30	25	6	49	s 1	28
31	10 39	8 30	3 16	2 56	12 49	22 25	7 1	22 44	0 3	17 28

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1885

Eclipse of Sun September 8th in ♍ 15° 57′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♍′	° ♎′	° ♍′	° ♉′	° ♋′	° ♍′	° ♋′	° ♎′	° ♉′	° ♍′
1	9 9	10 50	11R38	29 55	6 17	14 46	20 24	1 48	25R36	26 21
2	10 8	12 2	10 40	13♊48	22	59	21 2	52	36	18
3	11 6	13 15	9 43	27 58	27	15 11	21 40	55	36	15
4	12 4	14 27	8 47	12♋23	31	24	22 17	59	35	11
5	13 2	15 39	7 55	27 0	36	37	22 55	2 2	35	8
6	14 0	16 52	7 7	11♌44	41	50	23 33	6	35	5
7	14 59	18 4	6 25	26 27	6 45	16 3	24 10	2 10	25 34	26 2
8	15 57	19 16	5 50	11♍ 4	49	16	24 48	13	34	25 59
9	16 55	20 29	5 22	25 26	54	29	25 25	17	34	56
10	17 54	21 41	5 2	9 ♎31	58	42	26 3	21	33	52
11	18 52	22 53	4 51	23 12	7 2	55	26 40	24	33	49
12	19 51	24 5	4 D47	6 ♏31	6	17 8	27 17	28	33	46
13	20 49	25 17	4 57	19 26	10	21	27 54	32	32	42
14	21 48	26 29	5 14	2 ♐ 2	7 14	17 34	28 31	2 36	25 32	25 39
15	22 46	27 41	5 40	14 19	17	47	29 8	39	31	36
16	23 45	28 53	6 16	26 24	21	18 0	29 45	43	30	33
17	24 43	0 ♏ 5	7 0	8 ♑21	25	13	0♌22	47	29	30
18	25 42	1 17	7 52	20 13	28	26	0 59	51	28	27
19	26 41	2 29	8 52	2 ♒ 6	31	39	1 35	54	28	23
20	27 39	3 41	9 59	14 3	35	52	2 12	58	28	20
21	28 38	4 53	11 12	26 9	7 38	19 5	2 48	3 2	25 28	25 17
22	29 37	6 4	12 31	8 ♓24	41	18	3 25	8	26	14
23	0♎36	7 16	13 55	20 53	44	31	4 1	9	25	11
24	1 34	8 28	15 24	3 ♈36	47	44	4 37	13	24	8
25	2 33	9 39	16 57	16 33	49	56	5 13	17	23	4
26	3 32	10 51	18 33	29 45	52	20 9	5 49	21	22	1
27	4 31	12 2	20 12	13♉11	55	22	6 25	25	21	58
28	5 30	13 14	21 53	26 49	7 57	35	7 1	3 28	25 21	24 55
29	6 29	14 25	23 36	10♊39	59	47	7 37	32	20	52
30	7 28	15 37	25 20	24 38	8 2	21 0	8 13	3 36	25 19	24 49

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1885

Eclipse of Moon September 24th in ♈ 1° 34′

Declination of the Planets

D	S T	☉ N	♀ S	♂ N	☽ N	♃ N	♅ N	♂ N	♅ S	♆ N
1	10 43	8 8	3 47	3 26	15 30	22 24	6 56	22 39	0 5	17 28
2	47	7 46	4 17	3 59	17 21	24	51	34	6	28
3	51	7 24	4 48	4 32	18 10	24	46	29	7	28
4	55	7 2	5 19	5 6	17 51	24	41	24	9	28
5	59	6 40	5 49	5 39	16 21	24	36	19	11	28
6	11 3	6 18	6 19	6 13	13 46	24	31	13	13	28
7	11 7	5 55	6 50	6 47	10 17	22 23	6 26	22 7	0 14	17 28
8	11	5 32	7 20	7 15	6 12	23	21	1	15	28
9	15	5 10	7 50	7 43	1 48	23	16	21 55	16	28
10	19	4 47	8 21	8 11	2 S35	22	11	49	18	27
11	23	4 24	8 50	8 29	6 44	22	6	42	19	27
12	27	4 1	9 20	8 47	10 25	22	1	37	20	27
13	31	3 38	9 49	9 6	13 29	22 5	56	30	22	27
14	11 34	3 15	10 18	9 12	15 49	22 22	5 51	21 23	0 24	17 27
15	38	2 52	10 47	9 18	17 23	22	46	16	26	27
16	42	2 29	11 16	9 24	18 7	21	41	9	27	26
17	46	2 6	11 44	9 18	18 2	21	36	2	28	26
18	50	1 42	12 12	9 12	17 10	21	31	20 55	29	26
19	54	1 19	12 41	9 5	15 33	21	26	48	31	26
20	58	0 56	13 8	8 46	13 15	21	21	41	33	26
21	12 2	0 32	13 36	8 27	10 22	22 20	5 16	20 33	0 35	17 26
22	6	0 9	14 4	8 9	6 58	20	11	25	36	25
23	10	0 S14	14 30	7 40	3 13	20	6	18	37	25
24	14	0 38	14 56	7 12	0 N45	20	1	10	38	25
25	18	1 1	15 23	6 44	4 46	19	4 56	2	40	24
26	22	1 25	15 48	6 8	8 36	19	51	19 54	42	24
27	26	1 48	16 13	5 32	12 5	19	46	46	44	24
28	12 30	2 11	16 39	4 56	14 57	22 19	4 41	19 37	0 45	17 23
29	34	2 35	17 3	4 15	17 0	19	36	29	46	23
30	12 38	2 58	17 27	3 34	18 4	22 19	4 31	19 21	0 47	17 23

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1885

New Moon October 8th in ♎ 15° 22′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♎′	° ♏′	° ♏′	° ♑′	° ♑′	° ♏′	° ♌′	° ♎′	° ♓′	° ♏′
1	8 27	16 48	27 6	8 45	8 4	21 13	8 48	3 40	25R18	24 45
2	9 26	17 59	28 52	22 58	6	26	9 24	44	17	42
3	10 25	19 11	0♎38	7 ♌15	8	28	9 59	47	16	39
4	11 24	20 22	2 24	21 32	10	51	10 34	51	14	36
5	12 24	21 33	4 11	5 ♍48	11	22 3	11 9	55	13	33
6	13 23	22 44	5 58	19 58	13	16	11 45	59	12	30
7	14 22	23 55	7 44	3 ♎58	8 15	22 29	12 20	4 2	25 11	24 26
8	15 22	25 6	9 30	17 44	16	41	12 55	6	10	23
9	16 21	26 17	11 16	1 ♏15	18	53	13 29	10	9	20
10	17 20	27 28	13 1	14 27	19	23 6	14 4	14	7	17
11	18 20	28 39	14 46	27 20	20	18	14 39	17	6	14
12	19 19	29 50	16 30	9 ♐55	21	31	15 13	21	5	11
13	20 19	1 ♐ 1	18 14	22 13	21	43	15 48	25	3	7
14	21 18	2 11	19 57	4 ♑19	8 22	23 55	16 22	4 28	25 2	24 4
15	22 18	3 22	21 39	16 15	23	24 7	16 56	32	1	1
16	23 17	4 33	23 20	28 7	23	19	17 30	36	24 59	23 57
17	24 17	5 43	25 1	10♒ 0	23	32	18 4	39	58	54
18	25 17	6 53	26 42	21 57	24	44	18 38	43	57	51
19	26 16	8 4	28 21	4 ♓ 5	24	56	19 11	46	55	48
20	27 16	9 14	0 ♏ 0	16 26	24	25 8	19 45	50	54	45
21	28 16	10 24	1 39	29 5	8 R24	25 19	20 18	4 54	24 53	23 42
22	29 15	11 34	3 17	12♈ 4	24	31	20 52	57	51	38
23	0♏15	12 44	4 54	25 22	24	43	21 25	5 1	49	35
24	1 15	13 54	6 31	8 ♉59	23	55	21 58	4	47	32
25	2 15	15 4	8 7	22 53	23	26 6	22 31	8	46	29
26	3 15	16 14	9 43	6 ♊59	22	18	23 4	11	44	26
27	4 15	17 23	11 18	21 13	21	30	23 36	15	42	23
28	5 15	18 33	12 53	5 ♋31	8 20	26 41	24 9	5 18	24 41	23 19
29	6 15	19 42	14 27	19 47	19	52	24 41	21	40	16
30	7 15	20 52	16 1	3 ♌59	18	27 4	25 14	25	39	13
31	8 15	22 1	17 34	18 6	8 17	27 15	25 46	5 28	24 37	23 10

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1885

Full Moon October 23rd in ♉ 0° 15′

Declination of the Planets

D	S T	☉	♀	♂	♃	♄	♅	♆	♇
		S	S	N	N	N	N	S	N
1	12 41	3 21	17 52	2 54	18 2	22 19	4 26	19 12	0 49	17 23
2	45	3 45	18 15	2 10	16 53	19	22	19 4	0 51	23
3	49	4 8	18 38	1 26	14 40	19	17	18 55	0 53	23
4	53	4 31	19 2	0 42	11 32	18	12	18 46	0 54	22
5	57	4 54	19 24	1 s 0	7 44	18	7	18 37	0 55	22
6	13 1	5 17	19 46	1 17	3 30	18	2	18 28	0 56	22
7	13 5	5 40	20 7	1 34	0 s52	22 18	3 57	18 19	0 58	17 21
8	9	6 3	20 27	2 20	5 7	18	53	18 10	0 59	21
9	13	6 26	20 47	3 6	9 2	18	48	18 1	1 0	21
10	17	6 49	21 7	3 51	12 24	18	43	17 52	1 3	20
11	20	7 12	21 25	4 36	15 4	18	38	17 43	1 4	20
12	24	7 34	21 43	5 21	16 57	18	33	17 34	1 5	20
13	28	7 57	22 3	6 6	18 0	17	28	17 24	1 7	19
14	13 32	8 19	22 20	6 50	18 13	22 17	3 24	17 15	1 9	17 19
15	36	8 41	22 37	7 34	17 37	17	19	17 5	1 11	19
16	40	9 3	22 54	8 18	16 14	17	14	16 55	1 12	18
17	44	9 25	23 9	9 1	14 10	17	10	16 46	1 13	18
18	48	9 47	23 24	9 43	11 29	17	5	16 36	1 14	17
19	52	10 9	23 39	10 25	8 15	17	0	16 27	1 16	17
20	56	10 30	23 53	11 6	4 37	17 2	56	16 17	1 17	16
21	14 0	10 52	24 6	11 47	0 41	22 17 2	51	16 7	1 18	17 16
22	4	11 13	24 19	12 27	3 N23	17	46	15 57	20	15
23	8	11 34	24 31	13 6	7 23	17	42	15 48	1 21	15
24	12	11 55	24 42	13 44	11 6	17	37	15 38	1 22	15
25	16	12 16	24 53	14 22	14 16	17	32	15 28	1 24	14
26	20	12 36	25 3	14 59	16 38	17	28	15 18	1 25	14
27	24	12 57	25 12	15 35	18 1	17	24	15 8	1 26	14
28	14 27	13 17	25 21	16 11	18 16	22 17 2	19	14 58	1 28	17 13
29	31	13 37	25 29	16 45	17 21	17	15	14 48	1 29	13
30	35	13 56	25 36	17 19	15 22	17	11	14 38	1 30	13
31	14 39	14 16	25 43	17 52	12 28	22 18 2	6	14 28	1 32	17 12

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November. 1885

New Moon November 6th in ♏ 14° 16′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇
	° ♏′	° ♐′	° ♏′	° ♏′	° ♋′	° ♍′	° ♌′	° ♓′	° ♑′
1	9 15	23 10	19 7	2 5	8 ℞16	27 26	26 18	5 32	24℞35	23 7
2	10 15	24 19	20 44	15 56	15	37	26 50	35	33	3
3	11 15	25 28	22 12	29 39	13	48	27 22	38	31	0
4	12 15	26 37	23 44	13♎12	12	59	27 53	41	30	22 57
5	13 15	27 46	25 15	26 34	10	28 10	28 25	45	28	54
6	14 16	28 54	26 46	9 ♏45	8	21	28 56	48	26	51
7	15 16	0 ♑ 3	28 17	22 42	8 6	28 32	29 27	5 51	24 25	22 48
8	16 16	1 11	29 47	5 ♐25	4	42	29 58	54	23	44
9	17 17	2 20	1 ♐17	17 54	2	53	0♍29	57	21	41
10	18 17	3 28	2 46	0 ♑ 9	0	29 4	0 59	6 0	20	38
11	19 18	4 36	4 15	12 13	7 57	14	1 30	3	18	34
12	20 18	5 44	5 44	24 8	55	24	2 0	6	16	31
13	21 18	6 51	7 12	5 ♒58	53	34	2 30	9	15	28
14	22 19	7 59	8 39	17 48	7 50	29 45	3 0	6 12	24 13	22 25
15	23 19	9 6	10 7	29 43	47	55	3 30	15	11	22
16	24 20	10 13	11 33	11♓49	44	0 ♎ 5	3 59	18	10	19
17	25 20	11 20	12 59	24 10	41	14	4 29	21	8	15
18	26 21	12 27	14 24	6 ♈51	38	24	4 58	23	6	12
19	27 22	13 34	15 48	19 57	35	34	5 27	26	5	9
20	28 22	14 40	17 12	3 ♉28	32	43	5 55	29	3	6
21	29 23	15 46	18 34	17 25	7 29	0 53	6 24	6 32	24 1	22 3
22	0 ♐ 23	16 52	19 56	1 ♊43	25	1 2	6 52	34	0	0
23	1 24	17 58	21 16	16 18	22	11	7 20	37	23 58	21 56
24	2 25	19 4	22 35	1 ♋ 1	18	20	7 48	39	56	53
25	3 25	20 9	23 52	15 45	15	29	8 16	42	55	50
26	4 26	21 14	25 7	0 ♌22	11	38	8 44	44	53	47
27	5 27	22 19	26 20	14 47	7	47	9 11	47	51	44
28	6 28	23 23	27 31	28 57	7 4	1 56	9 38	6 49	23 50	21 41
29	7 29	24 28	28 39	12♍51	0	2 4	10 5	51	48	38
30	8 29	25 32	29 43	26 29	6 56	2 12	10 31	6 54	23 46	21 35

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November. 1885

Full Moon November 22nd in ♓ 0° 23′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♅	♁	♆	♇
		S	S	S	N	N	N	N	S	N
1	14 43	14 35	25 49	18 24	8 53	22 18	2 2	14 18	1 34	17 12
2	47	14 54	54	18 54	4 49	18	1 57	14 8	35	11
3	51	15 13	59	19 24	0 33	18	52	13 58	36	11
4	55	15 31	26 3	19 55	3 S43	18	49	13 48	37	10
5	59	15 50	5	20 22	7 43	18	45	13 38	38	10
6	15 3	16 8	8	20 49	11 18	18	40	13 28	39	10
7	15 7	16 25	26 10	21 17	14 15	22 18	1 36	13 18	1 41	17 9
8	11	16 43	10	21 41	16 28	18	32	13 9	42	9
9	15	17 0	11	22 8	17 51	18	28	12 59	43	9
10	19	17 17	12	22 29	18 23	19	24	12 49	45	8
11	23	17 34	10	22 45	18 4	19	20	12 39	46	8
12	27	17 50	8	23 4	16 58	19	16	12 29	47	8
13	31	18 6	6	23 21	15 8	19	12	12 19	48	7
14	15 35	18 22	26 2	23 41	12 39	22 19	1 8	12 9	1 49	17 6
15	38	18 37	25 58	24 2	9 38	19	4	11 59	50	6
16	42	18 52	55	24 23	6 10	20	1	11 50	52	5
17	46	19 7	49	24 36	2 22	20	0 57	11 41	53	5
18	50	19 21	43	24 49	1 N39	20	54	11 31	54	5
19	54	19 35	37	25 3	5 43	20	50	11 21	55	4
20	58	19 49	30	25 13	9 37	20	46	11 11	56	4
21	16 2	20 2	25 22	25 22	13 6	22 20	0 43	11 1	1 57	17 4
22	6	20 15	14	25 31	15 55	21	39	10 52	58	3
23	10	20 27	5	25 36	17 46	21	35	10 42	59	3
24	14	20 39	24 55	25 42	18 28	21	32	10 33	2 0	3
25	18	20 51	45	25 47	17 55	22	29	10 24	1	2
26	22	21 2	33	25 48	16 11	22	25	10 14	2	2
27	26	21 13	21	25 49	13 27	22	22	10 4	4	2
28	16 30	21 24	24 10	25 50	9 57	22 23	0 19	9 56	2 5	17 1
29	34	21 34	23 57	25 47	5 58	23	16	9 47	5	1
30	16 38	21 44	23 44	25 43	1 43	22 23	0 13	9 38	2 5	17 1

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1885

New Moon December 6th in ♐ 14° 35′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♃	♆	Ω
	° ♐′	° ♑′	° ♑′	° ♎′	° ♋′	° ♎′	° ♍′	° ♎′	° ♉′	° ♍′
1	9 30	26 36	0 44	9 53	6 ℞52	2 21	10 58	6 56	23℞45	21 31
2	10 31	27 39	1 41	23 5	47	29	11 24	59	44	28
3	11 32	28 42	2 33	6 ♏ 4	43	37	11 50	7 0	42	25
4	12 33	29 45	3 20	18 53	39	45	12 15	2	40	22
5	13 34	0♒48	4 0	1 ♐ 31	35	53	12 40	4	38	18
6	14 35	1 50	4 33	13 59	30	3 0	13 5	6	36	15
7	15 36	2 52	4 58	26 17	6 26	3 8	13 30	7 8	23 35	21 12
8	16 37	3 53	5 15	8 ♑25	21	15	13 54	10	34	9
9	17 38	4 54	5 21	20 24	17	22	14 19	12	33	6
10	18 39	5 55	5 ℞18	2 ♒16	12	29	14 42	14	31	3
11	19 40	6 56	5 3	14 4	8	36	15 6	16	30	20 59
12	20 41	7 55	4 37	25 52	3	43	15 29	17	28	56
13	21 42	8 55	4 0	7 ♓45	5 58	50	15 52	19	26	53
14	22 43	9 54	3 11	19 46	5 54	3 56	16 15	7 20	23 24	20 50
15	23 44	10 52	2 12	2 ♈ 3	49	4 3	16 37	22	23	47
16	24 45	11 50	1 3	14 41	44	9	16 59	23	22	44
17	25 46	12 48	29♐48	27 44	39	15	17 20	25	20	40
18	26 47	13 45	28 27	11♉15	34	21	17 41	26	19	37
19	27 49	14 41	27 4	25 16	29	27	18 2	28	18	34
20	28 50	15 37	25 42	9 ♊45	25	32	18 23	29	17	31
21	29 51	16 32	24 23	24 37	5 20	4 38	18 43	7 30	23 16	20 28
22	0♑52	17 27	23 10	9 ♋42	15	43	19 2	31	14	25
23	1 53	18 21	22 5	24 51	10	48	19 22	32	13	21
24	2 54	19 14	21 9	9 ♌52	5	53	19 41	33	12	18
25	3 55	20 7	20 23	24 39	0	58	19 59	34	11	15
26	4 56	20 59	19 47	9 ♍ 5	4 55	5 2	20 17	35	10	12
27	5 57	21 50	19 22	23 8	50	7	20 35	36	9	9
28	6 59	22 40	19 8	6 ♎48	4 45	5 11	20 52	7 37	23 7	20 6
29	8 0	23 29	19 3	20 7	40	15	21 9	38	6	2
30	9 1	24 18	19D 8	3 ♍ 8	35	19	21 25	39	5	19 59
31	10 2	25 6	19 19	15 53	4 30	5 23	21 41	7 39	23 4	19 56

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1885

Full Moon December 21st in ♊ 29° 51′

Declination of the Planets

D	S T	☉	☿	♂	☽	♄	♅	♆	♇	♇
		S	S	S	S	N	N	N	S	N
1	16 42	21 53	23 31	25 39	2 31	22 23	0 9	9 29	2 6	16 59
2	45	22 2	23 16	25 38	6 35	23	6	20	7	59
3	49	11	23 1	25 24	10 16	23	3	12	8	59
4	53	19	22 46	25 17	13 25	24	0	3	9	58
5	57	26	22 29	25 6	15 53	24	0 s 3	8 54	10	58
6	17 1	34	22 13	24 54	17 34	24	5	46	11	58
7	17 5	22 40	21 57	24 43	18 25	22 25	0 8	8 38	2 11	16 57
8	9	47	21 40	24 28	18 25	25	10	30	12	57
9	13	53	21 22	24 13	17 35	25	13	22	12	57
10	17	58	21 4	23 59	16 0	26	16	14	13	56
11	21	23 3	20 45	23 42	13 44	26	18	6	13	56
12	25	7	20 26	23 25	10 55	26	20	7 58	14	56
13	29	12	20 8	23 8	7 38	27	23	50	15	55
14	17 33	23 15	19 45	22 49	3 59	22 27	0 25	7 43	2 15	16 55
15	37	18	19 22	22 31	0 6	27	27	35	16	55
16	41	21	19 8	22 12	3 N53	28	30	28	17	54
17	45	23	18 42	21 53	7 49	28	32	21	17	54
18	49	25	18 23	21 34	11 30	28	35	14	17	54
19	52	26	18 5	21 15	14 40	28	37	7	18	53
20	56	27	17 43	21 0	17 3	28	39	0	18	53
21	18 0	23 27	17 21	20 45	18 21	22 28	0 41	6 53	2 19	16 53
22	4	27	17 0	20 29	18 24	29	43	47	20	52
23	8	26	16 39	20 20	17 8	29	45	40	20	52
24	12	25	16 15	20 11	14 41	29	46	33	20	52
25	16	24	15 53	20 2	11 19	30	48	26	21	52
26	20	22	15 31	20 0	7 20	30	49	21	21	52
27	24	19	15 8	19 59	3 2	30	61	16	21	52
28	18 28	23 16	14 45	19 58	1 s18	22 31	0 52	6 12	2 22	16 51
29	32	13	14 22	20 4	5 28	31	53	8	22	51
30	36	9	14 0	20 8	9 16	31	54	3	22	51
31	18 40	23 4	13 36	20 13	12 33	22 32	0 56	5 57	2 23	16 50

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	35	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5692	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	82
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	10	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	56	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06
59	68	46	46	65	02	53	18	95	83	81	88	03

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1886

New Moon January 5th in ♑ 15° 8′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♑′	° ♒′	° ♑′	° ♌′	° ♎′	° ♓′	° ♐′	° ♐′	° ♈′	° ♏′
1	11 3	25 52	19 42	28 26	4 R25	5 27	21 56	7 40	23R 3	19 53
2	12 4	26 38	20 10	10♌48	20	30	22 11	41	2	49
3	13 6	27 23	20 44	23 1	15	33	26	41	1	46
4	14 7	28 7	21 24	5 ♑ 6	11	36	40	42	0	43
5	15 8	28 50	22 10	17 5	6	39	53	42	22 59	40
6	16 9	29 32	23 0	28 59	1	42	23 6	42	58	37
7	17 10	0♓12	23 54	10♒49	3 56	5 45	23 18	7 42	22 57	19 34
8	18 12	0 51	24 51	22 36	51	47	30	43	57	31
9	19 13	1 29	25 52	4 ♓25	47	49	41	43	56	28
10	20 14	2 6	26 56	16 18	42	51	51	43	55	25
11	21 15	2 41	28 2	28 19	37	52	24 1	43	55	22
12	22 16	3 15	29 11	10♈33	33	54	11	43	54	19
13	23 17	3 47	0♑22	23 6	28	56	20	43	53	16
14	24 18	4 18	1 34	6 ♉ 2	3 24	5 57	24 28	7 R43	22 52	19 13
15	25 19	4 47	2 49	19 25	20	58	35	43	52	10
16	26 20	5 14	4 5	3 ♊18	15	59	42	42	51	7
17	27 22	5 40	5 23	17 41	11	59	48	42	51	3
18	28 23	6 4	6 41	2 ♋31	7	6 0	54	42	51	0
19	29 24	6 26	8 2	17 39	2	0	59	41	50	18 56
20	0♒25	6 46	9 23	2 ♌58	2 58	0	25 3	41	50	53
21	1 26	7 4	10 45	18 14	2 54	6 R 0	25 7	7 41	22 49	18 49
22	2 27	7 20	12 9	3 ♍19	50	0	10	40	48	46
23	3 28	7 34	13 33	18 4	46	5 59	12	39	48	43
24	4 29	7 46	14 58	2 ♎23	43	58	13	39	48	40
25	5 30	7 55	16 24	16 16	39	58	14	38	48	37
26	6 31	8 2	17 51	29 42	35	57	14	37	48	33
27	7 32	8 7	19 19	12♏45	31	55	R13	36	48	30
28	8 32	8 9	20 48	25 27	2 28	5 54	25 11	7 35	22 47	18 27
29	9 33	8 9	22 17	7 ♐53	24	52	9	34	47	24
30	10 34	8 R 6	23 47	20 6	21	50	6	33	47	21

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January. 1886

Full Moon January 20th in ♌ 0° 25′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♆	♇
		S	S	S	S	N	S	N	S	N
1	18 44	22 59	13 13	20 22	15 13	22 32	0 57	5 53	2 23	16 50
2	48	54	12 50	32	17 8	32	58	49	23	50
3	52	48	27	42	18 15	32	59	45	23	50
4	56	42	3	52	18 32	33	1 1	40	23	49
5	19 0	35	11 40	21 4	17 58	33	1	37	23	49
6	3	28	17	16	16 38	33	2	33	23	49
7	19 7	22 21	10 54	21 27	14 35	25 34	1 3	5 29	2 23	16 49
8	11	13	31	38	11 56	34	3	26	23	49
9	15	4	8	49	8 48	34	4	23	23	49
10	19	21 56	9 46	22 1	5 18	35	5	20	24	49
11	23	46	24	11	1 32	35	5	18	24	49
12	27	37	2	21	2 N21	35	5	16	24	49
13	31	26	8 40	30	6 13	35	6	14	23	48
14	19 35	21 16	8 18	22 37	9 55	22 35	1 6	5 12	2 23	16 48
15	39	5	7 57	45	13 14	35	6	11	23	48
16	43	20 54	36	53	15 57	36	6	9	23	48
17	47	42	16	58	17 47	36	6	8	23	48
18	51	30	6 56	23 3	18 29	36	6	8	23	48
19	55	17	36	8	17 54	37	6	7	23	48
20	59	4	18	10	16 1	37	6	7	23	48
21	20 3	19 51	6 0	23 11	13 0	22 37	1 6	5 8	2 23	16 48
22	7	37	5 41	13	9 9	38	5	8	22	48
23	10	23	24	11	4 49	38	5	9	22	48
24	14	9	7	9	0 19	38	5	10	22	48
25	18	18 54	4 50	7	4 S 3	38	4	11	21	47
26	22	39	35	3	8 5	38	4	13	21	47
27	26	24	21	22 58	11 35	38	4	15	21	47
28	20 30	18 8	4 7	22 55	14 27	22 39	1 1	5 16	2 20	16 48
29	34	17 52	3 55	45	16 35	39	0	18	20	48
30	38	36	43	34	17 55	39	0 59	21	20	48
31	20 42	17 19	3 31	22 23	18 26	22 40	0 58	5 24	2 19	16 48

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1886

New Moon February 4th in ♒ 15° 39′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♒′	° ♓′	° ♑′	° ♑′	° ♌′	° ♐′	° ♏′	° ♑′	° ♑′	° ♍′
1	12 36	7 R53	26 50	14 5	2 R15	5 R46	24 R5	7 R31	22 47	18 14
2	13 37	7 43	28 22	25 57	12	44	24 51	30	47	11
3	14 38	7 31	29 56	7 ♒47	9	41	24 45	29	47	8
4	15 39	7 16	1♒30	19 36	6	38	24 38	28	47	4
5	16 39	6 58	3 4	1 ♓26	3	35	24 30	27	47	1
6	17 40	6 38	4 39	13 20	0	32	24 21	25	47	17 58
7	18 41	6 16	6 15	25 19	1 58	5 29	24 12	7 24	22 47	17 55
8	19 42	5 51	7 52	7 ♈26	55	25	24 2	22	47	52
9	20 43	5 24	9 30	19 46	53	22	23 51	21	47	49
10	21 43	4 56	11 9	2 ♉21	50	18	23 39	19	48	45
11	22 44	4 25	12 49	15 14	48	14	23 26	18	48	42
12	23 44	3 53	14 29	28 31	46	10	23 13	16	48	39
13	24 45	3 20	16 10	12♊13	44	5	22 59	14	49	36
14	25 46	2 45	17 52	26 21	1 42	5 1	22 44	7 13	22 50	17 33
15	26 46	2 9	19 35	10♋54	40	4 56	22 29	11	50	30
16	27 47	1 32	21 19	25 48	39	51	22 13	9	51	27
17	28 47	0 55	23 4	10♌55	37	46	21 56	7	51	24
18	29 48	0 17	24 49	26 7	35	41	21 39	6	51	21
19	0♓48	29 40	26 36	11♍14	34	36	21 21	4	52	17
20	1 49	29♒2	28 23	26 7	33	30	21 2	2	53	14
21	2 49	28 25	0♓11	10♎38	1 32	4 25	20 43	7 0	22 53	17 11
22	3 49	27 49	2 1	24 43	31	19	20 23	6 58	54	7
23	4 50	27 14	3 51	8 ♏21	30	13	20 2	56	55	4
24	5 50	26 40	5 42	21 33	29	7	19 41	54	56	1
25	6 50	26 8	7 34	4 ♐21	28	1	19 20	52	57	16 58
26	7 50	25 37	9 27	16 48	28	3 55	18 58	50	58	55
27	8 51	25 8	11 21	29 0	27	49	18 36	47	58	52
28	9 51	24 41	13 16	11♑0	1 27	3 42	18 14	6 45	22 59	16 48

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1886

Full Moon February 18th in ♌ 28° 49′

Declination of the Planets

D	S T	☉	☿	♀	♂	☽	♄	♅	♃	♆	♇
		S	S	S	S	S	N	S	N	S	N
1	20 46	17 2	3 21	22 11	18 7	22 40	0 57	5 27	2 18	16 48
2	50	16 45	33	21 56	17 1	40	56	31	18	48
3	54	16 27	45	21 41	15 11	40	55	35	18	48
4	58	16 9	2 57	21 26	12 43	40	54	39	17	48
5	21 2	15 51	53	21 8	9 43	40	52	43	16	48
6	6	15 33	48	20 49	6 18	40	50	48	16	48
7	21 10	15 14	2 43	20 30	2 37	22 41	0 49	5 53	2 15	16 48
8	14	14 55	41	20 7	1 N13	41	47	59	15	48
9	18	14 36	40	19 44	5 3	41	46	6 4	14	48
10	21	14 16	39	19 20	8 44	42	44	10	13	49
11	25	13 57	42	18 53	12 6	42	43	16	13	49
12	29	13 37	44	18 26	14 57	42	41	22	12	49
13	33	13 17	46	17 59	17 4	42	39	28	11	49
14	21 37	12 56	2 52	17 28	18 13	22 42	0 36	6 35	2 11	16 49
15	41	12 36	58	16 56	18 14	42	34	42	10	49
16	45	12 15	3 4	16 24	17 0	43	32	49	9	50
17	49	11 54	13	15 48	14 34	43	30	56	9	50
18	53	11 33	22	15 12	11 6	43	28	7 4	8	50
19	57	11 12	30	14 36	6 56	43	26	12	7	50
20	22 1	10 50	41	13 44	2 23	43	24	20	6	50
21	22 5	10 28	3 52	12 52	2 s12	22 43	0 21	7 28	2 5	16 50
22	9	10 7	4 3	12 0	6 31	44	18	36	5	51
23	13	9 45	15	11 28	10 20	44	15	45	4	51
24	17	9 22	27	10 56	13 31	44	13	55	3	51
25	21	9 0	40	10 24	15 56	45	11	8 2	2	52
26	25	8 38	54	9 36	17 32	45	9	10	1	52
27	28	8 15	5 7	8 48	18 17	45	6	18	0	52
28	22 32	7 53	5 20	8 0	18 12	22 45	0 3	8 27	1 59	16 52

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1886

Eclipse of the Sun March 5th in ♓ 14° 52′

Longitude of the Planets

D	☉	☿	☿	☽	♄	♅	♂	♃	♆	☊
	° ♓′	° ♒′	° ♓′	° ♍′	° ♌′	° ♒′	° ♏′	° ♒′	° ♉′	° ♏′
1	10 51	24R16	15 11	22 52	1 R27	3 R36	17R51	6 R43	23 0	16 45
2	11 51	23 53	17 6	4 ♒41	26	29	17 28	41	1	42
3	12 51	23 33	19 2	16 29	26	22	17 5	38	2	39
4	13 52	23 15	20 58	28 20	26	15	16 41	36	3	36
5	14 52	22 59	22 54	10♓15	D26	8	16 17	34	4	33
6	15 52	22 46	24 50	22 18	27	1	15 54	31	5	30
7	16 52	22 35	26 46	4 ♈29	1 27	2 54	15 30	6 29	23 6	16 26
8	17 52	22 26	28 41	16 50	28	47	15 6	27	7	23
9	18 52	22 20	0♈35	29 24	29	39	14 43	24	8	20
10	19 51	22 17	2 27	12♉11	30	32	14 19	22	10	17
11	20 51	22D16	4 17	25 13	31	25	13 56	19	11	14
12	21 51	22 17	6 5	8 ♊33	32	17	13 33	17	12	11
13	22 51	22 21	7 51	22 11	33	10	13 10	14	14	7
14	23 51	22 27	9 33	6 ♋ 7	1 34	2 2	12 47	6 12	23 15	16 4
15	24 50	22 35	11 12	20 22	35	1 54	12 25	9	16	1
16	25 50	22 45	12 46	4 ♌54	36	46	12 3	7	18	15 58
17	26 50	22 57	14 15	19 38	38	39	11 41	4	19	55
18	27 49	23 12	15 40	4 ♍28	39	31	11 20	2	20	52
19	28 49	23 29	16 59	19 19	41	23	10 59	5 59	22	48
20	29 49	23 48	18 12	4 ♎ 1	43	16	10 39	56	23	45
21	0♈48	24 8	19 19	18 30	1 45	1 8	10 19	5 54	23 24	15 42
22	1 47	24 30	20 19	2 ♍37	47	0	10 0	51	26	39
23	2 47	24 54	21 11	16 21	49	0 53	9 41	49	28	36
24	3 46	25 20	21 57	29 39	52	45	9 23	46	30	33
25	4 46	25 48	22 36	12♐34	54	37	9 6	43	31	29
26	5 45	26 17	23 7	25 6	56	29	8 50	41	33	26
27	6 44	26 47	23 31	7 ♑20	59	22	8 34	38	35	23
28	7 44	27 19	23 47	19 21	2 2	0 14	8 18	5 36	23 36	15 20
29	8 43	27 53	23 55	1 ♒13	5	6	8 4	33	38	17
30	9 42	28 28	23 57	13 2	7	29 59	7 50	31	40	14
31	10 41	29 4	23R51	24 51	2 10	♍51	7 37	5 28	23 41	15 10

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1886

Full Moon March 20th in ♍ 29° 49′

Declination of the Planets

D	S T	☉	♀	♁	☽	♄	♅	♂	♆	♇
		S	S	S	S	N	S	N	S	N
1	22 36	7 30	5 33	7 9	17 19	22 45	0 0	8 36	1 58	16 53
2	40	7 7	46	6 17	15 41	45	0 N 3	45	57	53
3	44	6 44	59	5 25	13 24	45	6	54	56	53
4	48	6 21	6 12	4 33	10 32	46	8	9 2	55	54
5	52	5 58	24	3 39	7 13	46	11	11	54	54
6	56	5 35	36	2 44	3 34	46	14	20	53	54
7	23 0	5 11	6 49	1 49	0 N 15	22 46	0 17	9 28	1 53	16 55
8	4	4 48	7 0	0 53	4 7	46	20	37	52	55
9	8	4 24	11	0 N 2	7 52	46	23	45	51	55
10	12	4 1	22	0 57	11 19	47	26	53	50	56
11	16	3 37	31	1 51	14 16	47	29	10 1	49	56
12	20	3 14	40	2 45	16 33	47	32	9	48	56
13	24	2 50	50	3 39	17 58	47	35	16	47	57
14	23 28	2 27	7 57	4 30	18 20	22 47	0 38	10 23	1 46	16 57
15	32	2 3	8 5	5 20	17 34	47	41	30	45	57
16	36	1 39	13	6 10	15 39	48	45	37	44	58
17	39	1 15	18	6 55	12 41	48	48	44	43	58
18	43	0 52	24	7 39	8 52	48	51	51	42	58
19	47	0 28	30	8 23	4 30	48	54	57	41	59
20	51	0 4	34	8 59	0 S 7	48	57	11 3	40	59
21	23 55	0 N 19	8 38	9 35	4 38	22 48	1 0	11 8	1 39	16 59
22	59	0 43	41	10 11	8 48	49	3	13	38	17 0
23	0 3	1 7	43	10 37	12 21	49	6	18	37	1
24	7	1 30	45	11 3	15 9	49	9	23	36	1
25	11	1 54	46	11 29	17 6	49	13	28	35	2
26	15	2 17	46	11 44	18 10	49	16	32	34	2
27	19	2 41	46	11 59	18 21	49	19	36	33	2
28	0 23	3 4	8 45	12 13	17 41	22 49	1 22	11 39	1 32	17 3
29	27	3 28	43	12 16	16 16	49	25	42	31	3
30	31	3 51	41	12 19	14 9	49	28	45	30	3
31	0 35	4 14	8 38	12 21	11 27	22 50	1 31	11 48	1 29	17 4

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1886

New Moon April 4th in ♈ 14° 38′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♈′	° ♒′	° ♈′	° ♐′	° ♑′	° ♏′	° ♑′	° ♏′	° ♉′	° ♍′
1	11 41	29 41	23R39	6 45	2 14	29R44	7 R24	5 R25	23 43	15 7
2	12 40	0♓20	23 20	18 47	17	36	13	23	45	3
3	13 39	0 59	22 55	1 ♈ 0	20	29	2	20	47	0
4	14 38	1 40	22 25	13 26	23	21	6 52	18	48	14 57
5	15 37	2 22	21 50	26 6	27	14	43	15	50	54
6	16 36	3 5	21 11	9 ♉ 0	31	7	34	13	52	51
7	17 35	3 48	20 29	22 8	2 34	29 0	6 27	5 10	23 54	14 48
8	18 34	4 33	19 46	5 ♊30	38	28 53	20	8	56	45
9	19 33	5 19	19 1	19 4	42	46	14	5	58	42
10	20 32	6 5	18 15	2 ♋50	46	39	9	3	24 0	38
11	21 30	6 53	17 29	16 46	50	33	4	0	2	35
12	22 29	7 41	16 45	0 ♌52	54	26	0	4 58	4	32
13	23 28	8 30	16 3	15 6	58	20	5 57	55	6	29
14	24 27	9 19	15 24	29 26	3 3	28 13	5 55	4 53	24 8	14 26
15	25 25	10 10	14 48	13♍51	7	7	54	50	10	23
16	26 24	11 1	14 15	28 15	11	1	53	48	12	19
17	27 23	11 52	13 47	12♎34	16	27 55	D53	46	14	16
18	28 21	12 44	13 23	26 44	21	49	54	43	16	13
19	29 20	13 37	13 4	10♏40	25	43	56	41	18	10
20	0 ♉ 18	14 31	12 50	24 17	30	38	58	39	20	7
21	1 17	15 25	12 41	7 ♐33	3 35	27 32	6 1	4 37	24 22	14 4
22	2 15	16 20	12 37	20 27	40	27	5	34	24	0
23	3 13	17 15	12D38	3 ♑ 1	45	22	9	32	26	13 57
24	4 12	18 11	12 44	15 17	50	17	14	30	28	54
25	5 10	19 7	12 55	27 20	55	12	20	28	31	51
26	6 9	20 3	13 11	9 ♒13	4 1	7	26	26	33	48
27	7 7	21 0	13 31	21 2	6	2	33	24	35	45
28	8 5	21 58	13 56	2 ♓52	4 11	26 58	6 41	4 22	24 37	13 41
29	9 3	22 56	14 25	14 49	17	54	49	20	39	38
30	10 2	23 54	14 58	26 56	4 23	26 50	6 58	4 18	24 41	13 35

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1886

Full Moon April 18th in ♎ 28° 21'

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♅	♃	♇	♆
		N	S	N	S	N	N	N	S	N
1	0 39	4 37	8 34	12 15	8 14	22 50	1 34	11 50	1 27	17 4
2	43	5 0	28	12 3	4 40	50	37	52	26	5
3	46	5 23	23	11 50	0 50	50	40	54	25	6
4	50	5 46	19	11 37	3 N 5	50	42	55	25	6
5	54	6 9	12	11 15	6 57	50	45	56	24	7
6	58	6 32	5	10 52	10 33	50	48	57	23	8
7	1 2	6 54	7 59	10 29	13 42	22 50	1 51	11 58	1 22	17 8
8	6	7 17	50	10 0	16 11	50	54	58	21	8
9	10	7 39	42	9 31	17 49	50	57	58	20	8
10	14	8 1	34	9 2	18 27	51	59	57	19	9
11	18	8 24	24	8 31	17 58	51	2 2	56	18	10
12	22	8 45	14	8 0	16 23	51	4	55	17	11
13	26	9 7	4	7 29	13 47	51	6	54	16	11
14	1 30	9 29	6 53	7 0	10 18	22 51	2 9	11 52	1 15	17 11
15	34	9 50	41	6 31	6 12	51	11	50	14	11
16	38	10 12	29	6 1	1 44	51	13	48	13	12
17	42	10 33	16	5 37	2 S 49	51	16	45	12	13
18	46	10 54	3	5 13	7 9	51	18	42	11	14
19	50	11 15	5 50	4 48	11 0	51	20	40	10	14
20	53	11 35	36	4 31	14 12	51	22	36	9	15
21	1 57	11 56	5 21	4 14	16 33	22 51	2 24	11 33	1 8	17 16
22	2 1	12 16	6	3 57	18 0	51	26	30	8	16
23	5	12 36	4 51	3 48	18 32	51	28	26	7	16
24	9	12 56	35	3 39	18 10	51	30	22	6	16
25	13	13 15	19	3 29	16 58	51	32	18	6	17
26	17	13 35	2	3 27	15 3	51	34	13	5	18
27	21	13 54	3 45	3 25	12 31	51	36	8	4	19
28	2 25	14 13	3 28	3 24	9 27	22 51	2 37	11 3	1 3	17 19
29	29	14 32	10	3 22	5 58	51	39	10 57	2	19
30	2 33	14 50	2 52	3 20	2 12	22 51	2 41	10 52	1 1	17 19

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1886

New Moon May 4th in ♉ 13° 54′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♉ ′	° ♓ ′	° ♈ ′	° ♈ ′	° ♋ ′	° ♍ ′	° ♏ ′	° ♒ ′	° ♉ ′	° ♍ ′
1	11 0	24 53	15 35	9 18	4 28	26R46	7 8	4 R16	24 44	13 32
2	11 58	25 52	16 16	21 58	34	42	18	14	46	28
3	12 56	26 51	17 1	4 ♉ 56	40	38	28	12	48	25
4	13 54	27 51	17 49	18 12	45	35	39	10	50	22
5	14 52	28 51	18 40	1 ♊ 45	51	31	51	8	53	19
6	15 50	29 51	19 35	15 33	57	28	8 4	7	55	16
7	16 49	0♈52	20 33	29 30	5 3	26 25	8 17	4 5	24 57	13 13
8	17 47	1 54	21 34	13♋34	9	23	30	3	25 0	9
9	18 45	2 55	22 38	27 42	16	20	44	2	2	6
10	19 42	3 57	23 44	11♌51	22	18	59	0	4	3
11	20 40	4 59	24 53	25 59	28	15	9 14	3 59	6	0
12	21 38	6 1	26 5	10♍ 5	34	13	29	57	8	12 57
13	22 36	7 3	27 20	24 9	41	12	45	56	10	54
14	23 34	8 6	28 37	8 ♎ 8	5 47	26 10	10 1	3 54	25 13	12 50
15	24 32	9 9	29 57	22 2	54	8	18	53	15	47
16	25 30	10 12	1♉19	5 ♍46	6 0	7	36	52	17	44
17	26 27	11 16	2 43	19 20	7	6	54	50	20	41
18	27 25	12 19	4 10	2 ♐40	13	5	11 12	49	22	38
19	28 23	13 23	5 39	15 43	20	4	30	48	24	35
20	29 20	14 27	7 11	28 29	27	4	49	47	27	31
21	0♊18	15 31	8 44	10♑58	6 34	26 3	12 9	3 46	25 29	12 28
22	1 16	16 36	10 20	23 12	41	3	28	45	31	25
23	2 13	17 41	11 59	5 ♒13	47	3	48	44	33	22
24	3 11	18 46	13 40	17 5	54	3	13 9	43	35	19
25	4 9	19 51	15 23	28 54	7 1	D 3	♑01	42	37	16
26	5 6	20 56	17 8	10♐45	8	4	♑1	41	40	12
27	6 4	22 1	18 55	22 42	15	4	14 13	41	42	9
28	7 1	23 7	20 45	4 ♈52	7 22	26 5	14 35	3 40	25 44	12 6
29	7 59	24 13	22 37	17 19	29	6	57	39	47	3
30	8 56	25 18	24 31	0 ♉ 7	37	8	15 20	38	49	11 59
31	9 54	26 25	26 28	13 17	7 44	26 9	15 43	3 38	25 51	11 56

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1886

Full Moon May 18th in ♏ 27° 25'

Declination of the Planets

D	S T	☉ N	♀ S	♂ N	☽ N	♄ N	♅ N	♂ N	♆ S	♇ N
1	2 37	15 8	2 34	3 40	1 45	22 51	2 41	10 47	1 1	17 20
2	41	15 26	2 16	3 52	5 42	51	42	41	0	21
3	45	15 44	1 57	4 4	9 29	51	43	35	0 59	22
4	49	16 1	1 38	4 16	12 53	51	45	29	59	22
5	53	16 19	1 18	4 34	15 40	51	46	22	58	23
6	57	16 35	0 58	4 52	17 38	51	47	15	57	24
7	3 1	16 52	0 38	5 9	18 34	22 50	2 48	10 9	0 57	17 24
8	4	17 9	0 17	5 32	18 22	50	49	1	56	24
9	8	17 25	0 N 3	5 55	17 2	50	50	9 54	55	24
10	12	17 40	0 23	6 17	14 39	50	50	47	55	25
11	16	17 56	0 45	6 44	11 24	50	51	39	54	26
12	20	18 11	1 6	7 11	7 29	50	52	31	53	27
13	24	18 26	1 27	7 37	3 10	50	52	24	53	27
14	3 28	18 41	1 49	8 8	1 S 19	22 50	2 52	9 15	0 53	17 28
15	32	18 55	2 10	8 39	5 40	50	52	7	53	29
16	36	19 9	2 31	9 9	9 41	49	53	8 59	52	29
17	40	19 22	2 54	9 43	13 9	49	53	50	51	29
18	44	19 36	3 16	10 16	15 51	49	53	41	50	29
19	48	19 49	3 38	10 49	17 42	48	54	33	50	30
20	52	20 1	4 1	11 25	18 36	48	54	24	50	31
21	3 56	20 14	4 23	12 1	18 35	22 48	2 54	8 15	0 50	17 32
22	4 0	20 25	4 45	12 37	17 41	48	54	6	49	32
23	4	20 37	5 8	13 15	16 0	48	54	7 56	49	32
24	8	20 48	5 30	13 53	13 39	48	54	46	49	32
25	11	20 59	5 52	14 30	10 45	47	53	37	48	33
26	15	21 10	6 15	15 8	7 24	47	52	27	48	34
27	19	21 20	6 38	15 46	3 44	47	51	17	48	35
28	4 23	21 30	7 0	16 24	0 N 10	22 46	2 51	7 7	0 47	17 35
29	27	21 39	7 23	17 2	4 8	46	50	6 56	47	35
30	31	21 48	7 46	17 40	8 1	46	49	46	47	35
31	4 35	21 57	8 8	18 18	11 38	22 45	2 49	6 36	0 47	17 36

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June 1886

New Moon June 2nd in ♊ 11° 49'

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♊ ′	° ♈ ′	° ♉ ′	° ♉ ′	° ♋ ′	° ♍ ′	° ♎ ′	° ♑ ′	° ♉ ′	° ♍ ′
1	10 51	27 31	28 26	26 51	7 51	26 11	16 7	3 ♐37	25 53	11 53
2	11 49	28 37	0♊27	10♊46	58	12	16 30	37	55	50
3	12 46	29 44	2 30	24 59	8 6	14	16 54	36	57	47
4	13 44	0 ♉50	4 34	9 ♋22	13	16	17 19	36	59	44
5	14 41	1 57	6 40	23 51	20	19	17 43	36	26 1	41
6	15 39	3 4	8 47	8 ♌19	28	21	18 8	35	3	38
7	16 36	4 11	10 56	22 42	8 35	26 24	18 33	3 35	26 6	11 34
8	17 33	5 18	13 6	6 ♍56	43	27	18 59	35	8	31
9	18 31	6 25	15 17	21 0	50	30	19 25	35	10	28
10	19 28	7 33	17 29	4 ♎53	57	33	19 51	35	12	25
11	20 25	8 40	19 41	18 36	9 5	36	20 17	35	14	22
12	21 23	9 48	21 53	2 ♏ 9	13	39	20 44	D35	16	19
13	22 20	10 55	24 5	15 31	20	43	21 11	35	18	15
14	23 17	12 3	26 16	28 41	9 28	26 47	21 38	3 35	26 20	11 12
15	24 14	13 11	28 27	11 ♐39	35	51	22 5	36	22	9
16	25 12	14 19	0♋36	24 24	43	55	22 33	36	25	6
17	26 9	15 27	2 45	6 ♑56	51	59	23 1	36	27	3
18	27 6	16 36	4 52	19 15	58	27 3	23 29	36	29	0
19	28 3	17 44	6 58	1 ♒22	10 6	8	23 57	37	31	11 56
20	29 1	18 52	9 1	13 19	14	13	24 26	37	33	53
21	29 58	20 1	11 4	25 9	10 21	27 18	24 54	3 38	26 35	10 50
22	0♋55	21 9	13 4	6 ♓56	29	23	25 23	39	36	47
23	1 52	22 18	15 2	18 46	37	28	25 52	39	38	44
24	2 50	23 27	16 59	0 ♈43	45	33	26 22	40	40	41
25	3 47	24 36	18 53	12 53	52	39	26 51	41	42	37
26	4 44	25 45	20 45	25 20	11 0	44	27 21	41	44	34
27	5 41	26 54	22 35	8 ♉10	8	50	27 51	42	46	31
28	6 38	28 3	24 23	21 25	11 16	27 56	28 22	3 43	26 48	10 27
29	7 36	29 12	26 9	5 ♊ 7	23	28 2	28 52	44	50	24
30	8 33	0♊22	27 52	19 14	11 31	28 8	29 23	3 45	26 52	10 21

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1886

Full Moon June 16th in ♐ 25° 12′

Declination of the Planets

☿	S T.	☉ N	♀ N	♂ N	☽ N	♄ N	♅ N	♂ N	♅ S	♆ N
1	4 39	22 5	8 31	18 55	14 45	22 45	2 48	6 26	0 46	17 37
2	43	13	8 54	19 31	17 7	45	47	15	46	37
3	47	20	9 16	20 6	18 28	45	46	4	46	37
4	51	28	9 38	20 41	18 42	44	45	5 53	46	38
5	55	34	10 1	21 13	17 42	44	44	42	46	38
6	59	41	10 23	21 44	15 33	44	43	31	46	38
7	5 3	22 47	10 45	22 15	12 27	22 43	2 42	5 20	0 46	17 40
8	7	52	11 7	22 41	8 38	43	41	9	46	40
9	11	57	11 29	23 6	4 22	43	40	4 57	46	40
10	15	23 2	11 50	23 31	0 s 4	42	38	45	46	41
11	19	6	12 12	23 50	4 27	42	36	34	46	41
12	22	10	12 33	24 8	8 32	42	34	22	46	41
13	26	14	12 54	24 26	12 8	41	33	10	46	42
14	5 30	23 17	13 15	24 36	15 5	22 40	2 31	3 58	0 46	17 43
15	34	20	13 36	24 46	17 13	40	29	46	46	44
16	38	22	13 56	24 56	18 23	39	27	34	46	44
17	42	24	14 17	24 58	18 47	39	25	22	46	44
18	46	25	14 37	25 0	18 12	39	23	10	46	44
19	50	26	14 57	25 1	16 48	38	22	2 57	47	45
20	54	27	15 16	24 55	14 40	37	20	45	47	46
21	5 58	23 27	15 35	24 49	11 57	22 37	2 18	2 32	0 47	17 47
22	6 2	27	15 54	24 42	8 45	36	15	19	48	47
23	6	26	16 13	24 29	5 12	36	13	6	48	47
24	10	25	16 31	24 16	1 24	36	11	1 53	48	47
25	14	24	16 49	24 2	2 N31	35	8	40	49	48
26	18	22	17 7	23 44	6 24	35	6	27	49	48
27	22	20	17 24	23 25	10 7	35	4	14	49	48
28	6 26	23 17	17 41	23 6	13 27	22 33	2 1	1 1	0 50	17 49
29	29	14	17 58	22 46	16 11	33	1 59	0 48	50	49
30	6 33	23 10	18 15	22 26	18 2	22 33	1 57	0 35	0 50	17 49

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1886

New Moon July 1st in ♋ 9° 30′

New Moon July 31st in ♌ 8° 8′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☽
	° ♋′	° ♊′	° ♋′	° ♋′	° ♍′	° ♐′	° ♍′	° ♒′	° ♉′	° ♍′
1	9 30	1 31	29 34	3 44	11 39	28 15	29 53	3 46	26 53	10 18
2	10 27	2 41	1♌13	18 28	47	21	0♒24	47	55	14
3	11 25	3 50	2 50	3 ♌20	55	28	56	49	57	11
4	12 22	5 0	4 25	18 11	12 2	34	1 27	50	58	8
5	13 19	6 10	5 59	2 ♍53	10	41	1 59	51	27 0	5
6	14 16	7 20	7 29	17 22	18	48	2 31	52	2	2
7	15 13	8 29	8 57	1♎35	12 26	28 55	3 3	3 54	27 3	9 59
8	16 11	9 39	10 23	15 30	34	29 3	3 35	55	5	55
9	17 8	10 49	11 47	29 7	41	10	4 7	57	7	52
10	18 5	11 59	13 9	12♏28	49	18	4 40	58	8	49
11	19 2	13 9	14 29	25 33	57	25	5 12	4 0	10	46
12	19 59	14 20	15 46	8 ♐25	13 5	33	5 45	1	12	43
13	20 57	15 30	17 0	21 4	12	41	6 18	3	13	40
14	21 54	16 40	18 12	3 ♑31	13 20	29 49	6 51	4 5	27 14	9 36
15	22 51	17 51	19 22	15 48	28	57	7 21	6	15	33
16	23 48	19 1	20 29	27 55	36	0♒6	7 58	8	17	30
17	24 46	20 12	21 33	9 ♒53	43	14	8 31	10	18	27
18	25 43	21 23	22 35	21 45	51	23	9 5	12	19	24
19	26 40	22 33	23 33	3 ♓33	59	31	9 37	14	21	21
20	27 37	23 44	24 28	15 20	14 6	39	10 13	16	22	17
21	28 35	24 55	25 21	27 10	14 14	0 48	10 47	4 18	27 23	9 14
22	29 32	26 6	26 10	9 ♈ 7	22	57	11 22	20	25	11
23	0♌29	27 17	26 56	21 16	29	1 6	11 56	22	26	7
24	1 26	28 28	27 38	3 ♉42	37	15	12 31	24	27	4
25	2 24	29 39	28 16	16 29	44	24	13 6	26	29	1
26	3 44	25 ♋50	28 50	29 42	52	34	13 41	28	30	8 58
27	4 41	26 51	29 21	13♊22	15 0	43	14 16	31	31	55
28	5 38	28 3	29 47	27 30	15 7	1 53	14 51	4 33	27 32	8 52
29	6 36	29 12	0♍9	12♋4	15	2 2	15 26	35	33	48
30	7 33	0♊22	0 26	26 57	22	12	16 2	38	34	45
	8		0 39	12♌2	15 29	2 22	16 37	4 40	27 36	8 42

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1886

Full Moon July 16th in ♑ 23° 48′

Declination of the Planets

D	♈ T	☉ N	♀ N	♂ N	☽ N	♄ N	♃ N	♂ N	☿ S	♆ N
1	6 37	23 7	18 30	21 55	18 47	22 31	1 53	0 21	0 51	17 51
2	41	2	45	20 49	18 17	31	50	7	52	51
3	45	22 58	19 0	20 42	16 32	31	47	0 s 6	53	51
4	49	53	14	20 35	13 41	30	44	20	53	51
5	53	47	28	20 6	9 58	29	41	34	53	51
6	57	41	42	19 37	5 43	28	38	48	53	51
7	7 1	22 35	19 55	19 7	1 13	22 28	1 35	1 1	0 54	17 52
8	5	28	20 8	18 36	3 s15	27	32	15	55	52
9	9	21	20	18 5	7 27	26	29	29	56	52
10	13	14	32	17 34	11 11	26	26	42	56	53
11	17	6	43	17 3	14 18	25	23	50	57	53
12	21	21 58	54	16 32	16 39	24	20	2 10	58	53
13	25	49	21 4	16 0	18 10	24	16	24	58	54
14	7 29	21 40	21 13	15 29	18 46	22 23	1 13	2 39	0 59	17 54
15	33	31	22	14 57	18 29	22	10	53	1 0	54
16	36	21	31	14 25	17 20	22	6	3 7	0	55
17	40	11	39	13 55	15 27	21	2	21	1	55
18	44	1	47	13 24	12 55	20	0 58	35	2	55
19	48	20 50	54	12 53	9 51	19	55	49	3	56
20	52	39	22 0	12 24	6 25	18	51	4 4	4	56
21	7 56	20 27	22 6	11 55	2 43	22 17	0 47	4 18	1 5	17 56
22	8 0	15	11	11 26	1 N 7	17	44	32	5	57
23	4	3	15	11 0	4 58	16	40	47	6	57
24	8	19 51	19	10 34	8 41	15	36	5 1	7	57
25	12	38	22	10 8	12 7	15	33	15	8	57
26	16	25	24	9 46	15 3	14	29	30	9	57
27	20	11	26	9 23	17 16	13	25	45	10	57
28	8 24	18 58	22 29	9 0	18 32	22 13	0 21	5 59	1 11	17 58
29	28	43	31	8 43	18 37	12	17	6 14	12	58
30	32	29	33	8 25	17 27	11	13	28	13	58
31	8 36	18 14	22 36	8 7	15 2	22 10	0 9	6 42	1 14	17 58

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1886

Eclipse of the Sun August 29th in ♍ 6° 1'

Longitude of the Planets

D	☉	♀	☿	☽	♄	♃	♂	♅	♆	☊
	° ♌ ′	° ♋ ′	° ♍ ′	° ♌ ′	° ♋ ′	° ♎ ′	° ♎ ′	° ♎ ′	° ♈ ′	° ♍ ′
1	9 6	7 59	0 47	27 9	15 37	2 31	17 13	4 43	27 36	8 39
2	10 3	9 10	0 49	12♍10	44	41	17 49	45	37	36
3	11 1	10 22	0 R 46	26 57	51	51	18 25	48	38	33
4	11 58	11 34	0 38	11♎24	59	3 2	19 1	51	39	30
5	12 56	12 46	0 24	25 29	16 6	12	19 37	53	40	27
6	13 53	13 57	0 6	9 ♏10	13	22	20 14	56	41	24
7	14 51	15 9	29♌42	22 29	16 21	3 33	20 50	4 59	27 41	8 20
8	15 48	16 21	13	5 ♐28	28	43	21 27	5 1	42	17
9	16 46	17 33	28 39	18 8	35	54	22 3	4	43	14
10	17 43	18 45	28 1	0 ♑34	42	4 4	22 40	7	43	11
11	18 41	19 57	27 19	12 48	49	15	23 17	10	44	8
12	19 38	21 10	26 34	24 52	56	26	23 54	13	45	5
13	20 36	22 22	25 46	6 ♒49	17 3	37	24 32	16	45	1
14	21 34	23 34	24 56	18 41	17 10	4 48	25 9	5 19	27 46	7 58
15	22 31	24 47	24 5	0 ♓29	17	59	25 46	22	47	55
16	23 29	25 59	23 14	12 16	24	5 10	26 24	25	47	52
17	24 27	27 11	22 24	24 6	30	21	27 2	28	47	49
18	25 24	28 24	21 36	5 ♈59	37	32	27 39	31	47	46
19	26 22	29 37	20 51	18 0	44	43	28 17	34	48	42
20	27 20	0♌50	20 10	0 ♉12	50	55	28 55	37	48	39
21	28 18	2 2	19 34	12 39	17 57	6 6	29 34	5 40	27 48	7 36
22	29 16	3 15	19 4	25 25	18 5	18	0♍12	43	49	33
23	0♍14	4 28	18 40	8 ♊33	10	29	0 50	47	49	30
24	1 11	5 40	18 23	22 5	17	41	1 29	50	49	27
25	2 9	6 53	18 14	6 ♋ 5	23	52	2 7	53	50	23
26	3 7	8 6	18 12	20 29	29	7 4	2 46	57	50	20
27	4 5	9 19	18D19	5 ♌16	36	16	3 25	6 0	50	17
28	5 3	10 33	18 34	20 19	18 42	7 28	4 4	6 3	27 50	7 13
29	6 1	11 46	18 57	5 ♍30	48	40	4 43	7	50	10
30	6 59	12 59	19 28	20 39	54	51	5 22	10	50	7
31	7 58	14 12	20 7	5 ♎38	19 0	8 3	6 1	6 13	27 51	7 4

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EPHEMERIS OF THE PLANETS' PLACES
Calculated for Mean Noon at Greenwich
August, 1886
Full Moon August 14th in ♒ 21° 24'
Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♃	♂	♅	♆
		N	N	N	N	N	N	S	S	N
1	8 40	17 59	22 28	7 53	11 35	22 10	0 5	6 57	1 15	17 59
2	44	17 44	26	7 44	7 24	9	1 7	12	16	59
3	47	17 28	24	7 35	2 50	8	0 s 3	7 27	17	59
4	51	17 13	22	7 25	1 s43	7	7	7 41	18	59
5	55	16 56	17	7 23	6 13	6	12	7 56	19	59
6	59	16 40	13	7 21	10 10	5	16	8 10	20	59
7	9 3	16 23	22 9	7 20	13 29	22 5	0 20	8 24	1 21	18 0
8	7	16 6	3	7 27	16 3	4	25	8 39	22	0
9	11	15 49	21 57	7 34	17 47	3	29	8 54	23	0
10	15	15 32	51	7 41	18 37	3	33	9 8	24	0
11	19	15 14	43	7 56	18 34	2	38	9 23	25	0
12	23	14 56	35	8 11	17 40	1	42	9 37	26	0
13	27	14 38	27	8 26	15 59	0	46	9 51	28	0
14	9 31	14 19	21 17	8 48	13 38	22 0	0 51	10 6	1 29	18 0
15	35	14 1	21 7	9 9	10 44	21 59	55	10 21	30	0
16	39	13 42	20 57	9 30	7 24	58	59	10 35	31	0
17	43	13 23	46	9 56	3 46	57	1 4	10 50	32	0
18	47	13 3	35	10 21	0 N 2	56	9	11 4	33	0
19	51	12 44	23	10 46	3 52	55	13	11 18	35	0
20	54	12 24	10	11 12	7 35	54	18	11 32	36	0
21	9 58	12 4	19 56	11 37	11 3	21 53	1 23	11 46	1 37	18 0
22	10 2	11 44	42	12 2	14 5	53	27	12 0	39	1
23	6	11 24	27	12 24	16 30	52	32	12 15	40	1
24	10	11 3	12	12 46	18 6	51	37	12 29	41	1
25	14	10 43	18 57	13 8	18 40	50	41	12 43	43	1
26	18	10 22	41	13 24	18 4	49	46	12 57	44	1
27	22	10 1	24	13 39	16 14	48	51	13 11	45	1
28	10 26	9 40	13 7	13 54	13 15	21 48	1 55	13 24	1 47	18 0
29	30	9 18	17 49	14 1	9 21	47	2 0	13 38	48	0
30	34	8 57	31	14 8	4 50	46	5	13 52	49	0
31	10 38	8 35	17 12	14 15	0 5	21 46	2 10	14 6	1 51	18 0

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1886

New Moon September 27th in ♎ 4° 17′

Longitude of the Planets

D	☉	☿	♂	☽	♄	♃	♅	♆	♇	☊
	° ♍′	° ♌′	° ♌′	° ♎′	° ♑′	° ♎′	° ♍′	° ♎′	° ♑′	° ♍′
1	8 56	15 25	20 55	20 19	19 6	8 15	6 40	6 17	27R51	7 1
2	9 54	16 39	21 50	4 ♏36	12	28	7 20	20	51	6 58
3	10 52	17 52	22 52	18 27	18	40	7 59	24	51	55
4	11 50	19 6	24 0	1 ♐51	23	52	8 39	27	50	51
5	12 48	20 19	25 16	14 50	29	9 4	9 19	31	50	48
6	13 47	21 33	26 37	27 28	35	16	9 58	34	50	45
7	14 45	22 46	28 4	9 ♑48	19 40	9 28	10 38	6 38	27 50	6 42
8	15 43	24 0	29 34	21 54	46	41	11 18	42	50	38
9	16 42	25 14	1 ♍ 9	3 ♒51	51	53	11 58	45	50	35
10	17 40	26 27	2 48	15 41	57	10 6	12 39	49	49	32
11	18 38	27 41	4 30	27 29	20 2	18	13 19	52	49	29
12	19 37	28 55	6 15	9 ♓17	7	31	13 59	56	49	26
13	20 35	0 ♍ 9	8 2	21 7	12	43	14 40	7 0	48	23
14	21 34	1 23	9 50	3 ♈ 3	20 17	10 56	15 21	7 3	27 47	6 19
15	22 32	2 37	11 40	15 5	22	11 8	16 1	7	46	16
16	23 31	3 51	13 31	27 16	27	21	16 42	11	46	13
17	24 29	5 5	15 22	9 ♉37	32	34	17 23	15	46	10
18	25 28	6 19	17 14	22 12	37	46	18 4	18	46	7
19	26 26	7 33	19 6	5 ♊ 2	42	59	18 45	22	45	4
20	27 25	8 47	20 57	18 9	46	12 12	19 26	26	44	0
21	28 24	10 1	22 49	1 ♋36	20 51	12 25	20 7	7 29	27 43	5 57
22	29 23	11 15	24 40	15 24	55	37	20 49	33	43	54
23	0♎21	12 30	26 31	29 33	59	50	21 30	37	42	51
24	1 20	13 44	28 20	14♌ 3	21 4	13 3	22 12	41	41	48
25	2 19	14 58	0♎10	28 50	8	16	22 54	44	40	45
26	3 18	16 13	1 58	13♍49	12	29	23 35	48	39	41
27	4 17	17 27	3 46	28 51	16	42	24 17	52	38	38
28	5 16	18 42	5 33	13♎49	21 20	13 55	24 58	7 56	27 38	5 35
29	6 15	19 56	7 19	28 33	23	14 8	25 40	8 0	37	32
30	7 14	21 11	9 4	12♏57	21 27	14 21	26 22	8 3	27 36	5 29

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1886

Full Moon September 13th in ♓ 20° 35′

Declination of the Planets

☽	S T	☉	☿	♂	♃	♄	♅	♆	♇
		N	N	N	S	N	S	S	N
1	10 42	8 13	16 53	14 16	4 35	21 45	2 14	14 19	1 53	18 0
2	46	7 52	16 33	14 10	8 51	44	19	33	54	0
3	50	7 30	16 13	14 4	12 30	43	24	47	55	0
4	54	7 7	15 53	13 57	15 22	43	29	15 0	57	0
5	58	6 45	15 32	13 41	17 22	42	34	14	58	0
6	11 2	6 23	15 10	13 24	18 27	41	39	27	59	0
7	11 5	6 0	14 48	13 7	18 38	21 40	2 44	15 40	2 1	18 0
8	9	5 38	14 25	12 42	17 57	39	49	53	2	0
9	13	5 15	14 2	12 16	16 28	38	54	16 6	3	0
10	17	4 52	13 39	11 50	14 17	38	58	19	5	17 59
11	21	4 30	13 16	11 17	11 30	37	3 3	32	7	59
12	25	4 7	12 52	10 43	8 16	36	8	45	9	59
13	29	3 44	12 28	10 9	4 41	36	13	57	10	59
14	11 33	3 21	12 3	9 30	0 54	21 35	3 18	17 10	2 11	17 59
15	37	2 58	11 38	8 50	2 N57	34	23	22	12	59
16	41	2 34	11 12	8 10	6 44	34	28	34	14	59
17	45	2 11	10 46	7 27	10 16	33	33	47	16	59
18	49	1 48	10 20	6 43	13 24	32	38	59	18	59
19	53	1 25	9 54	5 59	15 58	32	43	18 11	19	58
20	57	1 1	9 28	5 14	17 47	31	48	23	20	58
21	12 1	0 38	9 1	4 28	18 39	21 30	3 53	18 35	2 21	17 58
22	5	0 15	8 34	3 42	18 27	30	58	46	23	57
23	9	0 s 9	8 7	2 55	17 7	30	4 3	58	25	57
24	12	0 32	7 39	2 8	14 39	30	8	19 9	27	57
25	16	0 56	7 11	1 21	11 10	29	13	20	28	57
26	20	1 19	6 43	0 34	6 56	28	18	31	29	57
27	24	1 42	6 15	0 s13	2 14	27	23	42	30	57
28	12 28	2 6	5 46	1 0	2 s34	21 27	4 28	19 52	2 32	17 56
29	32	2 29	5 18	1 47	7 8	26	34	20 3	34	56
30	12 36	2 53	4 49	2 34	11 11	21 25	4 39	20 14	2 36	17 56

Fellowship Press. Oceanside, Calif.

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Simplified Scientific

Ephemeris of the Planets' Places

Calculated for Mean Noon at Greenwich

October, 1886

New Moon October 27th in ♏ 4° 0′

Longitude of the Planets

D	☉	☿	♂	☽	♃	♅	♄	♆	♇	☊
	° ♎′	° ♏′	° ♎′	° ♏′	° ♑′	° ♎′	° ♏′	° ♎′	° ♂′	° ♏′
1	8 13	22 25	10 49	26 55	21 31	14 33	27 5	8 7	27ℝ35	5 26
2	9 12	23 40	12 32	10 ♐ 26	34	46	27 47	11	34	23
3	10 11	24 54	14 15	23 30	37	59	28 29	15	33	20
4	11 10	26 9	15 57	6 ♑ 10	41	15 12	29 12	19	32	16
5	12 10	27 24	17 38	18 29	44	25	29 54	22	31	13
6	13 9	28 39	19 19	0 ♒ 33	47	38	0 ♐ 37	26	30	10
7	14 8	29 54	20 58	12 27	21 50	15 51	1 19	8 30	27 29	5 7
8	15 7	1 ♎ 8	22 37	24 15	52	16 4	2 2	34	28	4
9	16 7	2 23	24 15	6 ♓ 3	56	17	2 45	37	27	1
10	17 6	3 37	25 52	17 53	59	30	3 28	41	25	4 57
11	18 5	4 52	27 29	29 49	22 1	43	4 11	45	24	54
12	19 5	6 7	29 5	11 ♈ 53	4	56	4 54	49	23	51
13	20 4	7 22	0 ♏ 40	24 8	6	17 9	5 37	52	21	48
14	21 4	8 37	2 14	6 ♉ 35	22 8	17 22	6 20	8 56	27 20	4 45
15	22 3	9 52	3 48	19 13	11	35	7 3	9 0	19	42
16	23 3	11 7	5 21	2 ♊ 4	13	48	7 46	4	17	38
17	24 2	12 22	6 54	15 7	15	18 1	8 30	7	16	35
18	25 2	13 37	8 26	28 23	17	14	9 13	11	15	32
19	26 2	14 52	9 57	11 ♋ 53	18	27	9 57	15	13	29
20	27 1	16 7	11 28	25 36	20	40	10 41	18	12	26
21	28 1	17 22	12 58	9 ♌ 34	22 22	18 53	11 24	9 22	27 11	4 23
22	29 1	18 37	14 27	23 46	23	19 6	12 8	26	9	19
23	0 ♏ 1	19 52	15 56	8 ♍ 11	24	19	12 52	29	8	16
24	1 0	21 7	17 25	22 26	26	32	13 36	33	7	13
25	2 0	22 22	18 52	7 ♎ 28	27	45	14 20	36	5	10
26	3 0	23 38	20 19	22 8	28	58	15 4	40	3	7
27	4 0	24 53	21 46	6 ♏ 41	29	20 11	15 48	44	1	4
28	5 0	26 8	23 12	20 58	22 29	20 23	16 32	9 47	27 0	4 0
29	6 0	27 23	24 37	4 ♐ 54	30	36	17 17	51	26 58	3 57
30	7 0	28 39	26 1	18 26	31	49	18 1	54	56	54
31	8 0	29 54	27 24	1 ♑ 33	22 31	21 2	18 45	9 58	26 55	3 51

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1886

Full Moon October 13th in ♈ 20° 4′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♅	♂	♆	♆
		S	N	S	S	N	S	S	S	N
1	12 40	3 16	4 20	3 20	14 28	21 25	4 44	20 24	2 37	17 55
2	44	3 39	3 51	4 6	16 52	25	49	34	38	55
3	48	4 2	3 22	4 52	18 18	25	54	44	39	55
4	52	4 26	2 53	5 37	18 46	24	59	53	41	55
5	56	4 49	2 24	6 21	18 19	24	5 4	21 3	43	55
6	13 0	5 12	1 54	7 5	17 2	24	9	13	45	55
7	13 4	5 35	1 24	7 49	15 1	21 23	5 14	21 22	2 46	17 54
8	8	5 58	0 52	8 32	12 23	22	19	31	47	54
9	12	6 21	0 26	9 15	9 14	22	24	40	48	54
10	16	6 43	0 s 5	9 57	5 43	21	29	49	50	53
11	20	7 6	0 35	10 38	1 56	21	34	58	51	53
12	23	7 29	1 5	11 19	1 N57	21	39	22 6	52	53
13	27	7 51	1 35	11 59	5 50	20	44	14	54	52
14	13 31	8 14	2 5	12 38	9 30	21 20	5 49	22 22	2 56	1 / 52
15	35	8 36	2 35	13 17	12 49	20	54	30	58	52
16	39	8 58	3 4	13 55	15 34	20	58	37	59	51
17	43	9 20	3 34	14 32	17 35	20	6 3	44	3 0	51
18	47	9 42	4 4	15 8	18 42	20	8	51	1	51
19	51	10	4 33	15 44	18 47	19	13	58	3	50
20	55	10 25	5 3	16 18	17 46	19	18	23 5	4	50
21	13 59	10 47	5 32	16 52	15 40	21 19	6 23	23 12	2 5	17 50
22	14 3	11 8	6 1	17 25	12 35	18	28	23 18	7	49
23	7	11 29	6 30	17 57	8 42	18	33	24	9	49
24	11	11 50	6 59	18 28	4 14	18	38	30	11	49
25	15	12 11	7 28	18 59	0 s30	18	42	35	12	48
26	19	12 31	7 57	19 28	5 12	18	47	41	13	48
27	23	12 52	8 26	19 5 9	32	18	52	46	14	48
28	14 27	13 12	8 54	20 25	13 15	21 18	6 57	23 51	2 16	1 / 47
29	30	13 32	9 22	20 51	16 8	18	7 2	56	17	47
30	34	13 52	9 50	21 16	18 2	18	7	24 0	18	47
31	14 38	14 11	10 18	21 41	18 54	21 18	7 11	24 4	2 20	17 46

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1886

New Moon November 25th in ♐ 3° 11′

Longitude of the Planets

D	☉	☿	☿	☽	♄	♅	♂	♆	♇	☊
	° ♏′	° ♏′	° ♏′	° ♑′	° ♋′	° ♎′	° ♐′	° ♎′	° ♉′	° ♍′
1	9 0	1 9	28 47	14 16	22 31	21 14	19 30	10 1	26R54	3 47
2	10 1	2 24	0 ♐ 8	26 37	32	27	20 15	4	52	44
3	11 1	3 40	1 29	8 ♒42	32	40	20 59	8	50	41
4	12 1	4 55	2 49	20 36	32	52	21 44	11	49	38
5	13 1	6 10	4 8	2 ♓24	R31	22 5	22 29	15	47	35
6	14 1	7 26	5 25	14 12	31	18	23 13	18	45	32
7	15 2	8 41	6 40	26 4	22 31	22 30	23 58	10 21	26 44	3 28
8	16 2	9 57	7 54	8 ♈ 6	30	43	24 43	24	42	25
9	17 2	11 12	9 7	20 20	30	55	25 28	28	40	22
10	18 2	12 27	10 17	2 ♉48	29	23 7	26 13	31	39	19
11	19 3	13 42	11 25	15 32	28	20	26 59	34	37	16
12	20 3	14 57	12 31	28 32	27	32	27 44	37	35	13
13	21 4	16 13	13 33	11♊45	26	44	28 29	40	34	9
14	22 4	17 28	14 32	25 11	22 25	23 57	29 14	10 43	26 32	3 6
15	23 5	18 44	15 28	8 ♋47	24	24 9	0 ♏ 0	47	30	3
16	24 5	19 59	16 20	22 31	22	21 0	45	50	29	2 59
17	25 6	21 15	17 7	6 ♌22	21	33 1	31	53	27	56
18	26 6	22 30	17 48	20 19	20	45 2	16	56	25	53
19	27 7	23 45	18 24	4 ♍23	18	57 3	2	58	24	50
20	28 7	25 1	18 53	18 31	16	25 9	3 47	11 1	22	47
21	29 8	26 16	19 14	2 ♎44	22 14	25 21	4 33	11 4	26 20	2 44
22	0 ♐ 9	27 32	19 28	16 59	12	33 5	19	7	19	40
23	1 9	28 47	19 33	1 ♏13	10	45 6	5	10	17	37
24	2 10	0 ♐ 3	19R27	15 21	8	56 6	51	13	15	34
25	3 11	1 18	19 12	29 18	6	26 8	7 37	15	14	31
26	4 12	2 34	18 46	13 ♐ 0	3	19	8 22	18	12	28
27	5 12	3 49	18 9	26 22	1	31	9 8	20	10	25
28	6 13	5 5	17 21	9 ♑23	21 58	26 42	9 54	11 23	26 9	2 21
29	7 14	6 20	16 23	22 4	55	54	10 41	26	7	18
30	8 15	7 36	15 15	4 ♒25	21 53	27 5	11 27	11 28	26 5	2 15

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1886

Full Moon November 11th in ♉ 19° 3'

Declination of the Planets

D	S T	☉	☿	♂	☽	♄	♅	♃	♆	♇
		S	S	S	S	N	S	S	S	N
1	14 42	14 31	10 46	22 4	18 46	21 18	7 16	24 8	3 21	17 45
2	46	14 50	11 13	25	17 45	18	21	11	22	45
3	50	15 8	11 40	46	15 56	18	26	14	23	45
4	54	15 27	12 7	23 7	13 27	18	30	18	25	44
5	58	15 45	12 33	25	10 25	18	35	21	26	44
6	15 2	16 3	12 59	42	6 59	18	40	24	27	44
7	15 6	16 21	13 25	23 59	3 15	21 18	7 44	24 26	3 29	17 43
8	10	16 39	13 51	24 12	0 N39	18	49	28	30	43
9	14	16 56	14 16	25	4 36	18	54	30	31	43
10	18	17 13	14 41	38	8 25	19	58	32	33	42
11	24	17 30	15 5	47	11 57	19	8 3	33	34	42
12	26	17 46	15 29	56	14 58	19	7	34	35	42
13	30	18 2	15 53	25 5	17 17	19	11	35	37	41
14	15 34	18 18	16 16	25 9	18 42	21 19	8 16	24 35	3 38	17 40
15	37	18 33	16 39	13	19 4	19	20	35	39	39
16	41	18 48	17 2	17	18 19	20	24	36	40	39
17	45	19 3	17 24	16	16 28	20	29	36	41	39
18	49	19 17	17 45	15	13 39	20	33	36	42	39
19	53	19 32	18 6	25 14	10 0	21	37	35	43	38
20	57	19 45	18 26	7	5 46	21	42	34	44	38
21	16 1	19 59	18 46	25 0	1 11	21 21	8 46	24 33	3 45	17 38
22	5	20 12	19 6	24 53	3 s27	22	50	31	47	37
23	9	20 24	19 25	40	7 54	23	54	29	48	37
24	13	20 36	19 43	27	11 52	23	58	27	49	37
25	17	20 48	20 1	13	15 8	24	9 2	24	50	36
26	21	21 0	20 18	13	17 29	24	7	21	51	36
27	25	21 11	20 35	13	18 50	24	11	18	52	86
28	16 29	21 22	20 51	23 12	19 8	21 25	9 15	24 16	3 53	17 35
29	33	21 32	21 6	12	18 27	25	20	12	54	35
30	16 37	21 42	21 21	23 12	16 54	21 25	9 24	24 8	3 55	17 35

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1886

New Moon December 25th in ♑ 3° 40′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	9 16	8 51	14R 0	16 30	21R50	27 16	12 13	11 31	26R 4	2 11
2	10 17	10 7	12 41	28 25	47	28	12 59	33	2	8
3	11 18	11 22	11 18	10♓13	44	39	13 45	35	0	5
4	12 18	12 38	9 55	22 1	41	50	14 32	38	25 59	2
5	13 19	13 53	8 36	3 ♈55	37	28 1	15 18	40	57	1 59
6	14 20	15 9	7 22	15 58	34	11	16 5	42	55	56
7	15 21	16 24	6 15	28 17	21 31	28 22	16 51	11 44	25 54	1 52
8	16 22	17 39	5 18	10♉54	27	33	17 38	46	52	49
9	17 23	18 54	4 32	23 51	24	43	18 24	49	50	46
10	18 24	20 10	3 56	7 ♊ 9	20	54	19 11	51	49	43
11	19 25	21 26	3 32	20 45	16 29	4	19 57	53	48	40
12	20 26	22 41	3 19	4 ♋37	12	15	20 44	55	47	37
13	21 27	23 57	3 17	18 40	8	25	21 31	56	45	33
14	22 28	25 12	3 D24	2 ♌49	21 4	29 35	22 17	11 58	25 44	1 30
15	23 29	26 28	3 40	17 2	0	45	23 4	12 0	42	27
16	24 30	27 43	4 5	1 ♍13	20 56	55	23 51	2	40	24
17	25 31	28 59	4 37	15 22	52	0 ♍ 5	24 38	4	38	21
18	26 32	0♑14	5 16	29 27	48	15	25 25	5	37	18
19	27 33	1 30	6 1	13♎28	43	24	26 12	7	36	14
20	28 35	2 45	6 51	27 23	39	34	26 58	8	34	11
21	29 36	4 1	7 46	11♍12	20 35	0 43	27 45	12 10	25 33	1 8
22	0♑37	5 16	8 46	24 53	30	53	28 32	11	32	5
23	1 38	6 32	9 48	8 ♐23	26	1 2	29 19	13	30	2
24	2 39	7 47	10 53	21 40	21	11	0 ♒ 7	14	29	0 59
25	3 40	9 3	12 2	4 ♑43	17	20	0 54	15	28	55
26	4 42	10 18	13 13	17 30	12	29	1 41	16	27	52
27	5 43	11 34	14 26	0 ♒ 1	7	38	2 28	18	26	49
28	6 44	12 49	15 41	12 17	20 2	1 46	3 15	12 19	25 25	0 46
29	7 45	14 4	16 58	24 20	19 58	55	4 2	20	23	43
30	8 46	15 19	18 16	6 ♓13	53	2 4	4 49	21	22	40
31	9 47	16 35	19 36	18 1	19 48	2 12	5 36	12 22	25 21	0 36

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1886

Full Moon December 11th in ♊ 19° 25′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♅	♃	♆	♇
		S	S	S	S	N	S	S	S	N
1	16 41	21 51	21 36	21 51	14 38	21 27	9 27	24 4	3 56	17 34
2	45	22 0	49	21 21	11 45	27	31	0	57	34
3	48	9	22 2	20 51	8 26	27	35	23 55	58	34
4	52	17	15	20 21	4 47	28	38	50	58	33
5	56	25	27	19 55	0 55	29	42	45	59	33
6	17 0	32	38	19 29	3 N 1	30	46	40	4 0	33
7	17 4	22 39	22 49	19 3	6 56	21 30	9 49	23 34	4 1	17 32
8	8	45	58	18 47	10 37	31	52	28	2	32
9	12	51	23 7	18 31	13 55	32	57	22	3	32
10	16	57	16	18 15	16 35	32	10 0	15	3	31
11	20	23 2	23	18 11	18 25	33	4	8	4	31
12	24	6	30	18 7	19 12.	34	8	1	5	31
13	28	11	36	18 2	18 49	34	11	22 54	6	30
14	17 32	23 14	23 41	18 8	17 15	21 35	10 15	22 47	4 7	17 30
15	36	17	46	18 14	14 38	36	18	39	8	30
16	40	20	50	18 19	11 7	36	21	31	8	29
17	44	23	53	18 31	7 0	37	25	23	8	29
18	48	24	56	18 43	? 30	38	28	14	8	29
19	52	26	58	18 55	2 S 6	38	31	5	9	28
20	55	27	58	19 11	6 33	39	35	21 56	10	28
21	17 59	23 27	23 58	19 27	10 37	21 40	10 38	21 47	4 11	17 28
22	18 3	27	59	19 43	14 5	41	41	37	11	27
23	7	26	57	20 0	16 45	42	44	27	12	27
24	11	25	55	20 17	18 29	43	47	17	13	27
25	15	24	53	20 34	19 13	43	50	7	13	26
26	19	22	49	20 51	18 56	44	53	20 57	13	26
27	23	20	45	21 8	17 43	45	56	46	13	26
28	18 27	23 17	23 40	21 25	15 42	21 45	10 58	20 35	4 14	17 25
29	31	13	33	21 41	13 1	46	11 1	24	14	25
30	35	10	27	21 56	9 50	47	4	12	14	25
31	18 39	23 5	23 21	22 11	6 17	21 48	11 6	20 0	4 15	17 25

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.8802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.8730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.8660	.0720	8983	45	84	5997	30	53	44	83	75
3	.6812	.8590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.8522	.0649	35	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	53	42
8	.2553	.3258	.0511	42	39	66 98	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2668	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5692	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	82
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	10	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	56	74	10	61	26	03	90	88	94	09

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1887

New Moon January 24th in ♒ 4° 14′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♑′	° ♑′	° ♐′	° ♈′	° ♋′	° ♍′	° ♒′	° ♓′	° ♉′	° ♏℞′
1	10 49	17 50	20 57	29 49	19R43	2 20	6 24	12 23	25R20	0 33
2	11 50	19 6	22 19	11♈41	38	28	7 11	24	19	30
3	12 51	20 22	23 42	23 44	33	36	7 58	24	18	27
4	13 52	21 37	25 6	6 ♉ 2	28	43	8 45	25	17	24
5	14 53	22 53	26 31	18 40	23	51	9 33	26	16	22
6	15 54	24 8	27 56	1 ♊41	19	59	10 20	26	15	20
7	16 55	25 23	29 23	15 6	19 14	3 5	11 7	12 27	25 14	0 17
8	17 57	26 39	0♑50	28 56	9	13	11 55	27	13	13
9	18 58	27 54	2 17	13♋ 6	4	21	12 42	28	12	9
10	19 59	29 9	3 45	27 33	18 59	28	13 29	28	12	5
11	21 0	0♒25	5 15	12♌10	54	34	14 17	28	11	2
12	22 1	1 40	6 44	26 51	49	41	15 4	28	10	29 58
13	23 2	2 55	8 14	11♍28	44	48	15 51	28	10	♌55
14	24 3	4 11	9 45	25 57	18 39	3 54	16 39	12 29	25 9	29 52
15	25 4	5 26	11 16	10♎14	34	4 0	17 26	29	8	49
16	26 5	6 41	12 47	24 18	29	6	18 14	29	7	46
17	27 6	7 57	14 20	8 ♏ 7	24	12	19 1	29	7	43
18	28 8	9 12	15 53	21 41	20	18	19 48	R29	7	40
19	29 9	10 27	17 26	5 ♐ 1	15	24	20 36	29	6	36
20	0♒10	11 42	19 0	18 8	10	29	21 23	29	5	33
21	1 11	12 58	20 34	1 ♑ 1	18 5	4 34	22 11	12 29	25 4	29 30
22	2 12	14 13	22 9	13 42	0	40	22 58	29	4	27
23	3 13	15 28	23 45	26 10	17 56	45	23 45	29	4	24
24	4 14	16 43	25 21	8 ♒26	51	49	24 33	28	4	20
25	5 15	17 59	26 58	20 32	46	54	25 20	28	3	17
26	6 16	19 14	28 36	2 ♓29	42	58	26 8	28	3	14
27	7 17	20 29	0♒14	14 20	37	5 3	26 55	27	3	11
28	8 18	21 44	1 53	26 7	17 33	5 7	27 43	12 26	25 3	29 8
29	9 19	22 59	3 32	7 ♈55	28	11	28 30	25	3	5
30	10 20	24 14	5 13	19 47	24	15	29 17	25	3	2
31	11 21	25 30	6 54	1 ♉48	17 20	5 18	0 ♓ 4	12 24	25 2	28 58

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1887

Full Moon January 9th in ♋ 18° 58′

Declination of the Planets

D	S T	☉	♀	♁	☽	♄	♃	♂	♅	♆
		S	S	S	S	N	S	S	S	N
1	18 43	23 1	23 13	22 25	2 30	21 49	11 9	19 48	4 15	17 24
2	47	22 55	23 4	38	1 N24	50	12	36	15	24
3	51	50	22 55	51	5 18	50	15	24	15	24
4	55	44	22 46	23 3	9 3	51	17	11	16	24
5	59	37	22 35	13	12 30	52	20	18 58	16	24
6	19 3	30	22 24	22	15 27	53	22	45	16	24
7	19 6	22 23	22 12	23 31	17 41	21 54	11 24	18 32	4 17	17 23
8	10	15	21 59	38	18 59	55	27	19	17	23
9	14	7	21 46	44	19 8	55	29	6	17	23
10	18	21 58	21 32	50	18 2	56	31	17 52	17	23
11	22	49	21 17	53	15 45	57	33	38	17	23
12	26	39	21 2	56	12 26	57	35	24	17	23
13	30	29	20 46	58	8 21	58	37	9	17	22
14	19 34	21 19	20 29	23 57	3 50	21 59	11 39	16 55	4 17	17 22
15	38	8	20 12	56	0 s51	22 0	41	40	17	22
16	42	20 56	19 53	55	5 24	1	43	25	17	22
17	46	45	19 36	50	9 35	2	45	10	17	22
18	50	33	19 17	45	13 11	2	47	15 55	17	22
19	54	20	18 58	40	16 3	3	48	40	17	22
20	58	7	18 38	31	18 1	4	49	25	17	22
21	20 2	19 54	18 18	23 22	19 3	22 4	11 51	15 9	4 17	17 22
22	6	41	17 58	12	19 6	5	53	14 53	17	22
23	10	27	17 36	22 59	18 12	6	55	37	17	22
24	13	12	17 14	46	16 27	6	56	21	17	22
25	17	18 58	16 51	32	14 0	7	57	5	16	22
26	21	43	16 28	14	10 59	8	58	13 49	16	22
27	25	28	16 5	21 56	7 32	9	59	32	16	22
28	20 29	18 12	15 41	21 38	3 49	22 10	12 1	13 15	4 16	17 22
29	33	17 56	15 17	16	0 N 2	11	2	12 58	16	22
30	37	40	14 52	20 54	3 54	11	3	41	16	22
31	20 41	17 23	14 27	20 32	7 39	22 12	12 4	12 24	4 15	17 22

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1887

Eclipse of the Sun February 22nd in ♓ 3° 35′

Longitude of the Planets

D	☉	☿	♂	☽	♄	♃	♁	♅	♆	☊
	° ♒′	° ♒′	° ♒′	° ♉′	° ♑′	° ♏′	° ♈′	° ♐′	♉ ♉′	♉ ♌′
1	12 21	26 45	8 35	14 3	17R16	5 22	0 52	12R23	25R 2	28 55
2	13 22	28 0	10 18	26 36	11	25	1 39	22	2	51
3	14 23	29 15	12 1	9 ♊32	7	28	2 27	21	2	48
4	15 24	0♓30	13 45	22 54	3	31	3 14	20	1	45
5	16 25	1 45	15 29	6 ♋43	16 59	34	4 1	19	1	42
6	17 25	3 0	17 15	20 58	55	36	4 47	18	1	39
7	18 26	4 15	19 1	5 ♌35	16 51	5 39	5 36	12 17	25D 2	28 36
8	19 27	5 30	20 48	20 29	48	41	6 23	15	2	32
9	20 28	6 45	22 36	5 ♍32	44	43	7 11	14	2	29
10	21 28	8 0	24 24	20 35	41	45	7 58	13	2	26
11	22 29	9 15	26 13	5 ♎29	37	46	8 45	11	2	23
12	23 30	10 29	28 2	20 8	33	48	9 32	10	2	20
13	24 30	11 44	29 52	4 ♏27	30	49	10 20	9	3	17
14	25 31	12 59	1♓43	18 24	16 27	5 50	11 7	12 7	25 3	28 13
15	26 31	14 14	3 34	1 ♐58	24	51	11 54	6	3	10
16	27 32	15 28	5 25	15 10	20	52	12 41	4	4	7
17	28 32	16 43	7 16	28 4	17	52	13 28	3	5	4
18	29 33	17 58	9 7	10♑40	14	53	14 15	1	6	1
19	0♓33	19 12	10 58	23 3	11	53	15 3	11 59	6	27 58
20	1 34	20 27	12 49	5 ♒14	9	R53	15 50	57	6	54
21	2 34	21 42	14 39	17 17	16 6	5 52	16 37	11 56	25 6	27 51
22	3 35	22 56	16 26	29 13	4	51	17 24	54	7	48
23	4 35	24 11	18 13	11♓ 4	1	51	18 11	52	8	45
24	5 35	25 25	19 58	22 52	15 59	51	18 58	50	9	42
25	6 36	26 40	21 40	4 ♈40	57	50	19 45	48	9	39
26	7 36	27 54	23 20	16 30	54	48	20 32	46	10	35
27	8 36	29 9	24 56	28 25	52	47	21 19	44	11	32
28	9 36	0♈23	26 27	10♉28	15 51	5 45	22 5	11 42	25 12	27 29

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1887

Eclipse of the Moon February 8th in ☊ 19° 27′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	S	S	N	N	S	S	S	N
1	20 45	17 6	14 1	20 7	11 10	22 12	12 5	12 7	4 14	17 22
2	49	16 49	13 35	19 39	14 16	13	6	11 50	14	22
3	53	16 31	13 9	19 11	16 46	14	7	11 33	14	22
4	57	16 13	12 43	18 42	18 28	14	7	11 15	13	22
5	21 1	15 55	12 16	18 10	19 9	15	8	10 58	13	22
6	5	15 37	11 49	17 37	18 39	16	9	10 40	13	22
7	21 9	15 18	11 21	17 4	16 55	22 16	12 9	10 22	4 12	17 22
8	13	15 0	10 53	16 27	14 0	17	10	10 4	11	22
9	17	14 40	10 25	15 50	10 8	18	11	9 46	10	22
10	20	14 21	9 57	15 13	5 36	18	11	9 28	10	22
11	24	14 1	9 28	14 32	0 47	18	11	9 10	9	22
12	28	13 42	8 59	13 50	4 S 0	18	11	8 52	8	22
13	32	13 22	8 30	13 8	8 26	19	11	8 34	8	23
14	21 36	13 1	8 1	12 23	12 17	22 20	12 11	8 16	4 8	17 23
15	40	12 41	7 31	11 38	15 23	21	11	7 58	8	23
16	44	12 20	7 1	10 52	17 35	21	12	7 39	7	23
17	48	11 59	6 31	10 4	18 51	21	12	7 21	6	23
18	52	11 38	6 1	9 15	19 8	21	12	7 2	5	23
19	56	11 17	5 31	8 26	18 29	22	11	6 43	5	24
20	22 0	10 55	5 1	7 35	16 58	22	11	6 25	4	24
21	22 4	10 34	4 30	6 44	14 43	22 22	12 11	6 6	4 3	17 24
22	8	10 12	3 59	5 53	11 51	23	11	5 47	2	24
23	12	9 50	3 29	5 2	8 31	24	11	5 28	1	24
24	16	9 28	2 58	4 11	4 53	25	11	5 9	0	24
25	20	9 6	2 27	3 19	1 3	25	9	4 50	0	25
26	24	8 43	1 56	2 29	2 N 50	25	8	4 31	3 59	25
27	28	8 21	1 25	1 39	6 37	25	7	4 12	58	25
28	22 31	7 58	0 53	0 49	10 10	22 26	12 7	3 53	3 58	17 26

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1887

New Moon March 24th in ♈ 3° 32′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♓′	° ♈′	° ♓′	° ♉′	° ♋′	° ♍′	° ♓′	° ♏′	° ♉′	° ♑′
1	10 37	1 38	27 55	22 42	15R49	5 R44	22 52	11R40	25 12	27 25
2	11 37	2 52	29 17	5 ♊12	47	42	23 39	38	13	22
3	12 37	4 6	0♈34	18 2	45	40	24 26	36	14	19
4	13 37	5 21	1 43	1 ♋14	44	38	25 13	34	15	16
5	14 37	6 35	2 47	14 53	42	35	25 59	32	16	12
6	15 37	7 49	3 42	28 58	41	32	26 46	29	17	9
7	16 37	9 3	4 30	13♌30	15 40	5 29	27 33	11 27	25 18	27 6
8	17 37	10 17	5 10	28 23	39	26	28 19	25	19	3
9	18 37	11 41	5 41	13♍33	38	23	29 6	22	20	0
10	19 37	12 45	6 3	28 48	37	20	29 52	20	21	26 57
11	20 37	13 59	6 17	14♎ 0	36	16	0♈39	18	22	53
12	21 36	15 13	6 22	28 58	36	12	1 25	15	23	50
13	22 36	16 27	6 R19	13♍35	35	8	2 12	13	25	47
14	23 36	17 41	6 7	27 46	15 35	5 4	2 58	11 11	25 26	26 43
15	24 36	18 55	5 47	11♐29	34	0	3 45	8	27	40
16	25 35	20 9	5 20	24 45	34	4 56	4 31	6	29	37
17	26 35	21 22	4 46	7 ♑36	34	51	5 17	3	30	34
18	27 35	22 36	4 7	20 6	D34	47	6 3	1	31	31
19	28 34	23 50	3 22	2 ♒20	34	42	6 50	10 58	33	28
20	29 34	25 3	2 33	14 22	35	37	7 36	56	34	24
21	0♈33	26 17	1 42	26 15	15 35	4 32	8 22	10 53	25 35	26 21
22	1 33	27 30	0 49	8 ♓ 4	35	26	9 8	51	37	18
23	2 32	28 44	29 56	19 52	36	21	9 54	48	39	15
24	3 32	29 57	29♓3	1 ♈40	37	15	10 40	46	41	12
25	4 31	1♉11	28 12	13 31	38	10	11 26	43	42	9
26	5 31	2 24	27 23	25 27	39	4	12 12	40	43	5
27	6 30	3 37	26 38	7 ♉29	40	3 58	12 58	38	44	2
28	7 29	4 51	25 56	19 39	15 41	3 52	13 44	10 35	25 46	25 59
29	8 29	6 4	25 19	2 ♊ 0	42	45	14 30	33	48	56
30	9 28	7 17	24 48	14 33	43	39	15 15	30	50	53
31	10 27	8 30	24 21	27 22	15 45	3 32	16 1	10 28	25 51	25 50

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1887

Full Moon March 9th in ♍ 18° 37′

Declination of the Planets

D	S T	☉ S	♀ S	♂ S	☽ N	♄ N	♅ S	♃ S	♆ S	♇ N
1	22 35	7 35	0 22	0 2	13 22	22 26	12 6	3 34	3 57	17 26
2	39	7 13	0 *N* 9	0 *N* 41	16 1	26	5	3 15	56	26
3	43	6 50	0 40	1 24	17 58	26	4	2 56	55	26
4	47	6 27	1 11	2 7	19 2	27	4	2 37	54	27
5	51	6 3	1 43	2 42	19 2	27	3	2 18	53	27
6	55	5 40	2 14	3 17	17 52	27	2	1 59	52	27
7	22 59	5 17	2 45	3 51	15 31	22 28	12 1	1 40	3 52	17 28
8	23 3	4 54	3 16	4 15	12 4	28	0	1 21	51	28
9	7	4 30	3 47	4 39	7 47	28	11 59	1 2	50	28
10	11	4 7	4 18	5 2	2 57	28	57	0 43	49	29
11	15	3 43	4 49	5 13	2 s 2	28	56	0 24	48	29
12	19	3 20	5 20	5 23	6 49	28	55	0 5	47	29
13	23	2 56	5 50	5 33	11 4	29	53	0 N14	46	30
14	23 27	2 32	6 21	5 30	14 33	22 29	11 51	0 33	3 45	17 30
15	31	2 9	6 51	5 26	17 7	29	49	0 52	44	30
16	35	1 45	7 21	5 22	18 40	29	48	1 11	43	31
17	38	1 21	7 51	5 6	19 12	29	46	1 30	42	31
18	42	0 58	8 21	4 50	18 46	29	44	1 49	41	31
19	46	0 34	8 50	4 33	17 27	30	43	2 7	40	32
20	50	0 10	9 20	4 7	15 22	30	41	2 26	39	32
21	23 54	0 N14	9 49	3 41	12 38	22 30	11 39	2 45	3 38	17 32
22	58	0 37	10 18	3 15	9 25	30	37	3 4	37	33
23	0 2	1 1	10 47	2 44	5 49	30	35	3 23	36	33
24	6	1 24	11 15	2 13	2 0	30	33	3 41	35	33
25	10	1 48	11 43	1 42	1 N54	30	31	3 59	34	34
26	14	2 12	12 11	1 11	5 45	30	29	4 18	33	34
27	18	2 35	12 39	0 40	9 25	30	27	4 37	32	34
28	0 22	2 59	13 6	0 9	12 43	22 30	11 25	4 55	3 31	17 35
29	26	3 22	13 33	0 s 18	15 31	30	23	5 13	30	35
30	30	3 45	14 0	0 45	17 40	30	21	5 31	29	35
31	0 34	4 9	14 27	1 12	18 58	22 30	11 18	5 49	3 28	17 36

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1887

New Moon April 23rd in ♉ 2° 59′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♃	♂	♅	♆	♇
	° ♈′	° ♉′	° ♓′	° ♋′	° ♋′	° ♏′	° ♈′	° ♑′	° ♉′	° ♌′
1	11 26	9 43	24R 0	10 29	15 46	3 R26	16 47	10R25	25 53	25 47
2	12 25	10 56	23 45	23 58	48	19	17 32	22	55	44
3	13 25	12 9	23 35	7 ♌50	50	13	18 18	20	57	41
4	14 24	13 22	23 31	22 7	52	6	19 4	17	59	38
5	15 23	14 35	23D33	6 ♍46	54	2 59	19 49	15	26 0	34
6	16 22	15 48	23 40	21 44	56	52	20 34	12	2	31
7	17 21	17 0	23 51	6 ♎54	15 58	2 45	21 20	10 9	26 4	25 28
8	18 19	18 13	24 8	22 6	16 0	38	22 6	6	6	25
9	19 18	19 26	24 30	7 ♏ 9	3	30	22 51	4	8	22
10	20 17	20 38	24 56	21 55	5	23	23 36	2	10	19
11	21 16	21 51	25 27	6 ♐16	8	16	24 21	9 59	11	15
12	22 15	23 3	26 2	20 9	11	8	25 6	57	13	12
13	23 13	24 15	26 41	3 ♑32	14	1	25 51	54	15	9
14	24 12	25 28	27 23	16 27	16 16	1 53	26 36	9 52	26 17	25 6
15	25 11	26 40	28 9	28 58	19	46	27 21	49	19	3
16	26 10	27 52	28 59	11♒11	23	38	28 6	47	21	0
17	27 8	29 4	29 52	23 10	26	31	28 51	44	23	24 56
18	28 7	0♊16	0♈47	5 ♓ 1	29	23	29 36	42	25	53
19	29 5	1 28	1 46	16 48	33	15	0♉21	40	27	50
20	0 ♉ 4	2 40	2 48	28 35	36	8	1 6	37	29	46
21	1 2	3 52	3 53	10♈26	16 40	1 0	1 50	9 35	26 32	24 43
22	2 1	5 4	5 0	22 22	43	0 52	2 35	33	34	40
23	2 59	6 15	6 9	4 ♉27	47	45	3 20	30	36	37
24	3 58	7 27	7 21	16 41	51	37	4 4	28	38	34
25	4 56	8 39	8 35	29 4	55	29	4 49	26	40	31
26	5 55	9 50	9 52	11♊38	59	22	5 33	23	42	27
27	6 53	11 2	11 11	24 23	17 3	14	6 18	21	44	24
28	7 51	12 13	12 32	7 ♋20	17 7	0 6	7 2	9 19	26 46	24 21
29	8 49	13 24	13 55	20 32	12	29♎59	7 46	17	48	18
30	9 48	14 35	15 20	3 ♌59	17 16	51	8 31	9 15	26 50	24 15

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1887

Full Moon April 8th in ♎ 18° 19'

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♃	♂	☿	Ψ
		N	N	S	N	N	S	N	S	N
1	0 38	4 32	14 53	1 35	19 18	22 30	11 16	6 7	3 27	17 37
2	42	4 55	15 18	1 53	18 33	30	14	6 25	26	37
3	46	5 18	15 43	2 11	16 40	30	11	6 43	25	37
4	49	5 41	16 9	2 29	13 43	29	9	7 1	24	38
5	53	6 4	16 33	2 39	9 50	29	7	7 19	23	39
6	57	6 26	16 57	2 49	5 15	29	5	7 37	22	39
7	1 1	6 49	17 21	3 0	0 17	22 29	11 2	7 54	3 21	17 40
8	5	7 11	17 44	3 4	4 s42	29	10 59	8 11	20	40
9	9	7 34	18 7	3 6	9 21	29	57	8 28	19	40
10	13	7 56	18 30	3 8	13 20	28	54	8 46	18	41
11	17	8 18	18 51	3 5	16 24	28	52	9 3	17	42
12	21	8 40	19 12	3 0	18 25	28	50	9 20	16	42
13	25	9 2	19 34	2 55	19 20	28	47	9 38	15	43
14	1 29	9 24	19 54	2 44	19 11	22 28	10 45	9 55	3 14	17 43
15	33	9 45	20 14	2 33	18 4	28	42	10 12	14	43
16	37	10 6	20 34	2 23	16 9	27	39	10 28	13	44
17	41	10 28	20 52	2 7	13 32	27	37	10 45	12	45
18	45	10 49	21 10	1 50	10 24	27	34	11 2	11	45
19	49	11 10	21 29	1 33	6 52	26	31	11 18	10	46
20	53	11 30	21 46	1 11	3 4	26	28	11 34	9	46
21	1 56	11 51	22 2	0 50	0 N52	22 26	10 26	11 50	3 8	17 46
22	2 0	12 11	22 19	0 29	4 48	25	23	12 6	7	47
23	4	12 31	22 34	0 3	8 35	25	21	12 22	6	48
24	8	12 51	22 49	0 N23	12 3	25	18	12 38	5	48
25	12	13 11	23 3	0 49	15 3	24	15	12 53	4	49
26	16	13 30	23 16	1 19	17 24	23	13	13 8	3	49
27	20	13 49	23 29	1 49	18 57	23	10	13 23	3	49
28	2 24	14 8	23 42	2 20	19 32	22 22	10 7	13 39	3 2	17 50
29	28	14 27	23 53	2 55	19 4	22	4	13 54	2	50
30	2 32	14 46	24 4	3 31	17 31	22 22	10 2	14 9	3 1	17 50

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1887

New Moon May 22nd in ♊ 1° 2′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♉′	° ♊′	° ♈′	° ♌′	° ♎′	° ♑′	° ♉′	° ♑′	° ♉′	° ♌′
1	10 46	15 46	16 47	17 44	17 21	29R44	9 15	9 R13	26 53	24 12
2	11 44	16 57	18 17	1 ♍48	25	37	9 59	11	55	8
3	12 42	18 8	19 48	16 10	30	29	10 43	9	57	5
4	13 40	19 19	21 21	0 ♒48	35	22	11 27	7	59	2
5	14 38	20 30	22 56	15 39	39	15	12 11	5	27 2	23 59
6	15 36	21 41	24 34	0 ♏34	44	8	12 55	3	4	56
7	16 34	22 51	26 13	15 25	17 49	29 1	13 39	9 1	27 6	23 53
8	17 32	24 2	27 54	0 ♐ 4	54	28 54	14 23	8 59	9	50
9	18 30	25 12	29 37	14 23	59	47	15 6	57	11	47
10	19 28	26 23	1 ♉22	28 16	18 5	40	15 50	55	13	43
11	20 26	27 33	3 9	11♑41	10	33	16 34	54	15	40
12	21 24	28 43	4 58	24 40	15	27	17 17	52	17	37
13	22 22	29 53	6 49	7 ♒15	21	20	18 1	50	19	34
14	23 20	1 ♋ 3	8 42	19 30	18 26	28 14	18 45	8 49	27 22	23 30
15	24 18	2 13	10 37	1 ♓31	32	7	19 28	47	25	27
16	25 15	3 23	12 34	13 23	37	1	20 11	46	26	24
17	26 13	4 32	14 32	25 11	43	27 55	20 55	44	29	21
18	27 11	5 42	16 33	7 ♈ 0	49	49	21 38	43	31	18
19	28 9	6 52	18 35	18 55	54	43	22 21	41	33	15
20	29 6	8 1	20 39	0 ♉58	19 0	38	23 5	40	36	11
21	0 ♊ 4	9 10	22 45	13 13	19 6	27 32	23 48	8 38	27 38	23 8
22	1 2	10 19	24 52	25 40	12	27	24 31	37	40	5
23	1 59	11 28	27 1	8 ♊19	18	21	25 14	36	42	2
24	2 57	12 37	29 10	21 11	24	16	25 57	35	44	22 59
25	3 55	13 46	1♊21	4 ♋15	31	11	26 40	34	46	56
26	4 52	14 55	3 32	17 31	37	7	27 23	33	49	52
27	5 50	16 4	5 44	0 ♌57	44	2	28 6	32	51	49
28	6 48	17 12	7 56	14 34	19 50	26 57	28 48	8 31	27 53	22 46
29	7 45	18 20	10 8	28 22	56	53	29 31	30	56	43
30	8 43	19 28	12 19	12♍22	20 2	49	0♊14	29	58	40
31	9 40	20 36	14 31	26 33	20 9	26 45	0 57	8 28	28 0	22 37

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1887

Full Moon May 7th in ♏ 16° 34′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ N	♄ N	♃ S	♂ N	♅ S	♆ N
1	2 36	15 4	24 15	4 1	14 56	22 21	10 0	14 24	2 59	17 52
2	40	22	24	4 38	11 25	20	9 58	39	58	52
3	44	40	33	5 15	7 10	19	55	53	57	52
4	48	57	42	5 52	2 25	19	52	15 7	57	53
5	52	16 14	49	6 32	2 S33	18	50	21	56	54
6	56	31	56	7 11	7 22	18	48	35	55	55
7	3 0	16 48	25 3	7 50	11 43	22 18	9 45	15 49	2 55	17 55
8	3	17 5	6	8 32	15 18	17	43	16 3	54	55
9	7	21	9	9 14	17 52	16	41	16	53	55
10	11	37	18	9 56	19 18	16	38	29	53	56
11	15	52	21	10 40	19 35	15	36	42	52	57
12	19	18 7	24	11 23	18 48	14	34	55	51	58
13	23	22	27	12 6	17 6	14	32	17 8	51	58
14	3 27	18 37	25 28	12 51	14 39	22 13	9 30	17 21	2 50	17 59
15	31	51	29	13 35	11 36	12	28	34	49	18 0
16	35	19 5	29	14 19	8 8	12	26	46	49	0
17	39	19	28	15 7	4 21	11	24	58	49	0
18	43	32	27	15 54	0 25	10	22	18 10	49	0
19	47	46	25	16 31	3 N34	10	20	22	48	1
20	51	58	21	17 14	7 28	9	18	34	47	2
21	3 55	20 11	25 18	17 57	11 6	22 8	9 16	18 45	2 46	18 2
22	59	23	15	18 39	14 19	8	14	56	46	3
23	4 3	34	10	19 19	16 57	7	13	19 7	46	3
24	7	46	6	19 58	18 47	6	11	18	46	3
25	11	57	24 58	20 37	19 39	5	9	29	45	4
26	14	21 7	51	21 11	19 28	4	7	40	45	5
27	18	18	44	21 45	18 11	3	6	50	45	6
28	4 22	21 27	24 36	22 19	15 51	22 3	9 5	20 0	2 44	18 6
29	26	37	27	22 47	12 35	2	3	10	44	6
30	30	46	18	23 14	8 34	1	2	20	44	6
31	4 34	21 55	24 8	23 41	4 1	22 0	9 1	20 29	2 43	18 7

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1887

New Moon June 21st in ♊ 29° 44′

Longitude of the Planets

D	☉ ° ♊′	☿ ° ♋′	♂ ° ♊′	☽ ° ♎′	♃ ° ♋′	♅ ° ♎′	♄ ° ♊′	♆ ° ♎′	♇ ° ♂′	♁ ° ♌′
1	10 38	21 44	16 41	10 54	20 15	26R41	1 39	8 R27	28 2	22 33
2	11 35	22 52	18 50	25 22	22	37	2 22	26	5	30
3	12 32	24 0	20 57	9 ♏53	29	33	3 4	26	7	27
4	13 30	25 7	23 3	24 20	35	30	3 47	25	9	24
5	14 27	26 15	25 8	8 ♐38	42	27	4 29	25	11	21
6	15 25	27 22	27 10	22 40	49	24	5 11	24	13	17
7	16 22	28 29	29 11	6 ♑22	20 56	26 21	5 53	8 24	28 15	22 14
8	17 19	29 36	1 ♋ 9	19 41	21 3	18	6 36	23	17	11
9	18 17	0♌42	3 5	2 ♒37	10	15	7 18	23	19	8
10	19 14	1 49	4 59	15 11	17	13	8 0	22	22	5
11	20 11	2 55	6 50	27 27	24	11	8 42	22	24	3
12	21 9	4 1	8 39	9 ♓30	31	9	9 24	22	26	21 59
13	22 6	5 7	10 26	21 24	38	7	10 6	22	28	55
14	23 3	6 13	12 10	3 ♈14	21 45	26 6	10 48	8 22	28 30	21 53
15	24 0	7 19	13 52	15 6	52	4	11 30	22	32	49
16	24 58	8 24	15 31	27 4	59	3	12 11	22	34	46
17	25 55	9 29	17 8	9 ♉13	22 7	2	12 53	22	36	43
18	26 52	10 34	18 42	21 35	14	1	13 35	D22	38	39
19	27 50	11 39	20 14	4 ♊13	21	0	14 17	22	40	36
20	28 47	12 44	21 43	17 8	28	25 59	14 59	22	42	33
21	29 44	13 48	23 10	0 ♋19	22 36	25 59	15 40	8 22	28 44	21 30
22	0♋41	14 53	24 34	13 45	43	59	16 21	22	46	27
23	1 39	15 57	25 56	27 24	51	59	17 3	22	48	23
24	2 36	17 0	27 15	11♌13	58	59	17 44	23	50	20
25	3 33	18 4	28 31	25 10	23 5	D59	18 25	24	52	17
26	4 30	19 7	29 44	9 ♍13	13	26 0	19 7	24	54	14
27	5 28	20 10	0♌55	23 21	20	0	19 48	25	56	11
28	6 25	21 13	2 3	7 ♎31	23 28	26 1	20 29	8 26	28 58	21 8
29	7 22	22 15	3 8	21 43	36	2	21 10	26	59	5
30	8 19	23 17	4 9	5 ♍54	23 43	26 3	21 51	8 27	29 1	21 2

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1887

Full Moon June 5th in ♐ 14° 27′

Declination of the Planets

D	S T	☉ N	♀ N	♂ N	☽ S	♄ N	♃ S	♂ N	♅ S	♆ N
1	4 38	22 3	23 57	24 4	0 48	21 59	9 0	20 38	2 42	18 7
2	42	11	45	20	5 36	58	8 59	47	42	8
3	46	19	33	37	10 5	58	58	56	42	8
4	50	26	22	54	13 59	57	57	21 5	42	9
5	54	33	8	25 3	17 0	56	56	13	42	9
6	58	39	22 55	12	18 57	55	55	21	42	9
7	5 2	22 45	22 42	25 20	19 45	21 54	8 54	21 30	2 41	18 10
8	6	51	27	21	19 24	53	53	37	41	11
9	10	56	12	22	18 2	52	53	45	41	11
10	14	23 1	21 56	22	15 49	51	52	53	41	12
11	18	5	40	16	12 55	50	52	22 0	41	12
12	21	9	23	10	9 32	49	52	7	41	12
13	25	13	6	4	5 49	48	51	14	41	13
14	5 29	23 16	20 48	24 53	1 53	21 47	8 51	22 17	2 41	18 13
15	33	19	30	42	2 N 7	46	51	20	41	13
16	37	21	12	29	6 4	45	50	23	41	14
17	41	23	19 53	12	9 49	44	50	32	41	14
18	45	25	33	23 58	13 14	42	50	40	41	15
19	49	26	13	40	16 8	41	50	51	41	16
20	53	27	18 59	20	18 18	40	50	56	41	16
21	5 57	23 27	18 35	23 0	19 33	21 39	8 50	23 1	2 41	18 16
22	6 1	27	11	22 40	19 44	38	50	6	41	17
23	5	26	17 50	21	18 46	37	50	11	41	17
24	9	25	28	2	16 41	35	50	16	41	17
25	13	24	6	21 32	13 36	34	51	20	42	18
26	17	22	16 43	27	9 43	33	51	23	42	18
27	21	20	20	23	5 16	32	51	27	42	18
28	6 25	23 18	15 57	20 19	0 32	21 31	8 52	23 31	2 43	18 19
29	29	15	54	14	4 S14	30	52	34	43	19
30	6 32	23 11	15 50	20 9	8 45	21 29	8 52	23 37	2 43	18 19

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1887

New Moon July 20th in ♋ 27° 23′

Longitude of the Planets

D	☉	☿	♂	☽	♄	♅	♃	♆	♇	☊
	° ♋ ′	° ♌ ′	° ♌ ′	° ♍ ′	° ♋ ′	° ♓ ′	° ♊ ′	° ♓ ′	° ♑ ′	° ♌ ′
1	9 16	24 19	5 8	20 1	23 51	26 5	22 32	8 28	29 3	20 58
2	10 14	25 21	6 3	4 ♐ 2	58	6	23 13	29	5	55
3	11 11	26 22	6 55	17 53	24 6	8	23 54	30	7	52
4	12 8	27 23	7 44	1 ♑ 30	14	10	24 35	31	9	49
5	13 5	28 24	8 29	14 51	21	12	25 16	32	11	46
6	14 2	29 24	9 10	27 55	29	14	25 57	33	12	42
7	14 59	0♍24	9 48	10♒40	24 37	26 17	26 38	8 34	29 14	20 39
8	15 57	1 23	10 21	23 8	44	19	27 18	35	16	36
9	16 54	2 22	10 51	5 ♓ 22	52	22	27 59	36	17	33
10	17 51	3 21	11 16	17 23	25 0	25	28 40	37	19	30
11	18 48	4 20	11 36	29 18	8	28	29 20	39	20	27
12	19 45	5 18	11 52	11 ♈ 9	16	32	0 ♋ 1	40	22	23
13	20 43	6 15	12 4	23 2	23	35	0 41	41	23	20
14	21 40	7 12	12 12	5 ♉ 1	25 31	26 39	1 21	8 43	29 25	20 17
15	22 37	8 9	12R13	17 12	39	42	2 2	44	26	14
16	23 34	9 5	12 11	29 38	43	46	2 42	46	28	11
17	24 32	10 1	12 3	12♊22	54	50	3 22	47	28	9
18	25 29	10 57	11 51	25 27	26 2	55	4 3	49	30	5
19	26 26	11 52	11 34	8 ♋ 52	10	59	4 43	51	32	2
20	27 23	12 46	11 12	22 37	17	27 4	5 23	53	33	19 59
21	28 21	13 40	10 46	6 ♌ 39	26 25	27 8	6 3	8 54	29 35	19 55
22	29 18	14 33	10 16	20 54	33	13	6 43	56	36	52
23	0♌15	15 25	9 42	5 ♍ 17	41	18	7 23	58	37	49
24	1 13	16 17	9 5	19 43	48	24	8 3	9 0	39	45
25	2 10	17 9	8 25	4 ♎ 9	56	29	8 43	2	40	42
26	3 7	18 0	7 43	18 30	27 4	34	9 23	4	41	39
27	4 5	18 50	6 59	2 ♏ 43	12	40	10 3	6	43	36
28	5 2	19 39	6 15	16 46	27 19	27 46	10 42	9 8	29 44	19 33
29	6 0	20 28	5 31	0 ♐ 38	27	52	11 22	10	45	30
30	6 57	21 16	4 47	14 17	35	58	12 2	13	46	26
31	7 54	22 3	4 6	27 42	27 43	28 4	12 41	9 15	29 47	19 23

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1887

Full Moon July 5th in ♈ 13° 5′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ S	♄ N	♅ S	♂ N	♆ S	Ψ N
1	6 36	23 8	14 46	19 4	12 47	21 27	8 54	23 41	2 44	18 20
2	40	3	14 23	18 39	16 3	26	55	43	44	20
3	44	22 59	13 58	14	18 22	24	56	46	44	20
4	48	54	13 33	17 50	19 36	23	57	49	45	21
5	52	48	12 59	27	19 42	22	58	51	45	21
6	56	43	12 37	3	18 44	21	59	53	45	21
7	7 0	22 36	12 17	16 39	16 49	21 20	9 0	23 55	2 46	18 22
8	4	30	11 52	16	14 9	19	1	56	46	22
9	8	23	11 26	15 55	10 54	18	3	58	47	22
10	12	16	11 0	34	7 15	16	4	59	48	23
11	16	8	10 34	14	3 22	15	5	59	48	23
12	20	0	10 8	14 57	0 N37	14	6	24 0	49	23
13	24	21 51	9 42	39	4 36	12	8	1	50	24
14	7 28	21 42	9 17	14 26	8 25	21 11	9 9	24 2	2 50	18 24
15	32	33	8 50	11	11 57	9	11	2	51	24
16	36	24	8 23	13 56	15 3	8	13	1	52	25
17	39	14	7 57	47	17 31	7	15	0	52	25
18	43	3	7 30	38	19 9	6	17	23 59	53	25
19	47	20 53	7 3	29	19 46	4	18	59	54	26
20	51	41	6 37	26	19 15	2	20	58	55	26
21	7 55	20 30	6 10	13 23	17 32	21 1	9 22	23 57	2 56	18 26
22	59	18	5 43	20	14 42	20 59	24	56	56	27
23	8 3	6	5 13	23	10 57	58	26	55	57	27
24	7	19 54	4 48	26	6 33	56	29	53	57	27
25	11	41	4 23	29	1 47	55	31	51	58	27
26	15	28	3 56	37	3 S 3	54	33	49	59	27
27	19	15	3 30	46	7 40	52	35	47	59	27
28	8 23	19 1	3 4	13 55	11 48	20 51	9 37	23 44	3 0	18 28
29	27	18 47	2 40	14 8	15 14	50	40	41	1	28
30	31	33	2 13	21	17 47	48	43	38	2	28
31	8 35	18 18	1 46	14 35	19 19	20 47	9 45	23 35	3 3	18 29

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1887

Eclipse of the Sun August 19th in ♌ 26° 8′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♌′	° ♍′	° ♌′	° ♑′	° ♑′	° ♑′	° ♒′	° ♒′	° ♉′	° ♌′
1	8 52	22 49	3 R27	10 54	27 50	28 11	13 21	9 17	29 48	19 20
2	9 49	23 34	2 51	23 52	58	17	14 0	19	49	17
3	10 47	24 19	2 19	6 ♒36	28 6	24	14 40	21	50	14
4	11 44	25 3	1 52	19 6	13	30	15 19	24	51	10
5	12 41	25 46	1 30	1 ♓23	21	37	15 59	26	52	7
6	13 39	26 27	1 13	13 30	28	44	16 38	29	53	4
7	14 36	27 7	1 3	25 29	28 36	28 52	17 17	9 31	29 54	19 1
8	15 34	27 47	0 D59	7 ♈22	44	59	17 57	34	55	18 58
9	16 31	28 26	1 2	19 13	51	29 6	18 36	36	56	55
10	17 29	29 3	1 12	1 ♉ 5	59	14	19 15	39	56	51
11	18 27	29 39	1 29	13 4	29 6	22	19 54	42	57	48
12	19 24	0♎14	1 53	25 13	14	29	20 33	45	58	45
13	20 22	0 48	2 24	7 ♊38	21	37	21 12	47	58	42
14	21 19	1 21	3 2	20 22	29 28	29 45	21 51	9 50	29 59	18 39
15	22 17	1 52	3 47	3 ♋28	36	54	22 30	53	0 ♊ 0	36
16	23 15	2 21	4 39	16 59	43	0 ♏ 2	23 9	56	1	32
17	24 13	2 49	5 38	0 ♌54	51	10	23 48	59	1	29
18	25 10	3 16	6 43	15 11	58	19	24 27	10 2	2	26
19	26 8	3 41	7 55	29 47	0 ♌ 5	27	25 5	5	2	22
20	27 6	4 4	9 12	14♍35	12	36	25 44	7	2	19
21	28 4	4 26	10 34	29 27	0 20	0 45	26 23	10 10	0 2	18 16
22	29 2	4 46	12 2	14♎17	27	54	27 1	14	3	13
23	0 ♍ 0	5 4	13 35	28 56	34	1 3	27 40	17	3	10
24	0 57	5 20	15 12	13♏21	41	12	28 18	20	3	7
25	1 55	5 33	16 53	27 27	48	22	28 57	23	4	3
26	2 53	5 46	18 38	11 ♐13	55	31	29 35	26	4	0
27	3 51	5 56	20 25	24 39	1 2	41	0♌14	29	4	17 57
28	4 49	6 4	22 15	7 ♑47	1 9	1 50	0 52	10 33	0 5	17 54
29	5 47	6 10	24 7	20 39	16	2 0	1 30	36	5	51
30	6 45	6 14	26 1	3 ♒16	23	10	2 9	39	5	48
31	7 43	6 15	27 55	15 41	1 29	2 20	2 47	10 42	0 5	17 44

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1887

Eclipse of the Moon August 3rd in ♒ 10° 47'

Declination of the Planets

D	♑ T	☉ N	♀ N	☿ N	☽ S	♄ N	♃ S	♂ N	♅ S	♆ N
1	♂ 39	18 3	1 20	14 51	19 45	20 45	9 47	23 31	3 4	18 29
2	43	17 48	0 55	15 8	19 8	43	50	28	5	29
3	47	17 32	0 29	15 25	17 32	42	53	24	6	29
4	50	17 17	0 3	15 41	15 7	41	55	20	7	29
5	54	17 0	0 s21	15 58	12 3	39	58	16	8	29
6	58	16 44	0 46	16 15	8 31	38	10 1	12	9	29
7	9 2	16 27	1 11	16 31	4 41	20 37	10 3	23 8	3 10	18 30
8	6	16 11	1 35	16 46	0 43	36	6	3	11	30
9	10	15 53	1 59	17 1	3 N16	34	9	22 58	12	30
10	14	15 36	2 23	17 16	7 8	32	11	53	13	30
11	18	15 18	2 46	17 28	10 45	30	14	48	14	30
12	22	15 0	3 9	17 39	13 58	29	17	43	15	30
13	26	14 42	3 32	17 50	16 39	28	20	38	17	30
14	9 30	14 24	3 54	17 56	18 36	20 26	10 24	22 32	3 18	18 30
15	34	14 5	4 16	18 2	19 38	25	27	26	19	30
16	38	13 46	4 38	18 8	19 35	24	30	20	20	30
17	42	13 27	4 58	18 7	18 22	23	33	14	21	30
18	46	13 8	5 18	18 6	15 57	21	36	8	22	30
19	50	12 49	5 38	18 4	12 20	19	39	1	24	31
20	54	12 29	5 57	17 55	8 11	17	43	21 55	25	31
21	9 57	12 9	6 16	17 46	3 22	20 16	10 46	21 48	3 26	18 31
22	10 1	11 49	6 34	17 37	1 s38	15	49	41	27	31
23	5	11 29	6 51	17 21	6 28	13	53	34	28	31
24	9	11 8	7 7	17 4	10 50	12	56	27	29	31
25	13	10 48	7 23	16 43	14 31	11	59	20	31	31
26	17	10 27	7 37	16 17	17 18	10	11 3	13	32	31
27	21	10 6	7 51	15 51	19 4	8	6	5	33	31
28	10 25	9 45	8 5	15 25	19 45	20 6	11 9	20 57	3 35	18 31
29	29	9 23	8 17	14 53	19 23	4	13	49	36	31
30	33	9 2	8 28	14 18	18 3	3	17	41	37	31
31	10 37	8 40	8 39	13 45	15 51	20 2	11 20	20 32	3 39	18 31

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1887

New Moon September 17th in ♍ 24° 15′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♍′	° ♎′	° ♌′	° ♒′	° ♌′	° ♏′	° ♌′	° ♓′	° ♊′	° ♌′
1	8 41	6 R14	29 51	27 56	1 36	2 30	3 25	10 46	0 R 5	17 41
2	9 39	6 10	1♍48	10♓ 2	43	40	4 3	49	5	38
3	10 38	6 4	3 44	22 1	49	50	4 41	52	5	35
4	11 36	5 56	5 41	3 ♈56	56	3 0	5 19	56	5	31
5	12 34	5 45	7 37	15 47	2 3	10	5 57	59	5	28
6	13 32	5 32	9 33	27 38	9	21	6 35	11 3	5	25
7	14 30	5 17	11 29	9 ♉31	2 16	3 31	7 13	11 6	0 5	17 22
8	15 29	4 59	13 24	21 29	22	42	7 51	10	5	19
9	16 27	4 39	15 18	3 ♊37	28	53	8 29	13	5	16
10	17 25	4 17	17 11	15 58	35	4 3	9 6	17	5	12
11	18 24	3 53	19 4	28 37	41	14	9 44	20	5	9
12	19 22	3 27	20 55	11♋38	47	25	10 22	24	5	6
13	20 21	2 59	22 45	25 4	53	36	10 59	27	4	3
14	21 19	2 29	24 35	8 ♌58	2 59	4 47	11 37	11 31	0 3	17 0
15	22 18	1 57	26 23	23 18	3 5	58	12 14	35	2	16 57
16	23 16	1 27	28 10	8 ♍ 3	11	5 10	12 52	38	2	53
17	24 15	0 50	29 56	23 5	17	21	13 29	42	2	50
18	25 13	0 15	1♎42	8 ♎17	23	32	14 7	46	2	47
19	26 12	29♍39	3 26	23 27	29	44	14 44	49	1	44
20	27 11	29 3	5 10	8 ♏27	34	56	15 21	53	0	41
21	28 10	28 26	6 52	23 8	3 40	6 7	15 59	11 57	29 59	16 38
22	29 8	27 49	8 33	7 ♐25	45	19	16 36	12 0	♉59	34
23	0 ♎ 7	27 12	10 13	21 15	51	30	17 13	4	58	31
24	1 6	26 36	11 52	4 ♑40	56	42	17 50	8	57	28
25	2 5	26 0	13 30	17 40	4 1	54	18 27	11	57	25
26	3 4	25 25	15 8	0 ♒21	7	7 6	19 4	15	56	22
27	4 3	24 51	16 45	12 45	12	18	19 41	19	55	19
28	5 1	24 18	18 20	24 57	4 17	7 30	20 18	12 23	29 55	16 15
29	6 0	23 47	19 55	7 ♓ 0	22	42	20 55	27	54	12
30	6 59	23 18	21 29	18 57	4 27	7 54	21 31	12 30	29 53	16 9

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1887

Full Moon September 2nd in ♓ 9° 39′

Declination of the Planets

D	S T	☉	♀	♂	☽	♃	♅	♂	♅	♆
		N	S	N	S	N	S	N	S	N
1	10 41	8 19	8 48	13 7	12 58	20 1	11 24	20 24	3 40	18 31
2	45	7 57	55	12 27	9 34	0	28	16	41	31
3	49	7 35	9 2	11 47	5 48	19 58	31	7	42	31
4	53	7 13	8	11 6	1 51	56	34	19 58	44	31
5	57	6 51	11	10 22	2 N10	54	38	49	45	31
6	11 1	6 28	14	9 38	6 5	53	42	40	46	31
7	11 4	6 6	9 16	8 53	9 46	19 52	11 46	19 31	3 48	18 30
8	8	5 43	15	8 7	13 6	50	50	22	49	30
9	12	5 21	14	7 21	15 56	49	54	13	50	30
10	16	4 58	13	6 35	18 6	48	57	3	52	30
11	20	4 35	8	5 48	19 26	46	12 1	18 54	54	30
12	24	4 12	3	5 1	19 48	45	5	44	56	30
13	28	3 49	8 57	4 13	19 4	44	8	34	57	30
14	11 32	3 26	8 48	3 26	17 11	19 43	12 12	18 24	3 58	18 30
15	36	3 3	38	2 38	14 9	42	16	14	59	30
16	40	2 40	28	1 50	10 10	41	20	4	4 1	29
17	44	2 17	15	1 24	5 27	39	24	17 54	2	29
18	48	1 54	1	0 s 4	0 21	38	28	44	3	29
19	52	1 30	7 47	0 31	4 s45	37	32	33	5	29
20	56	1 7	31	1 16	9 30	35	36	23	7	29
21	12 0	0 44	7 15	2 3	13 35	19 34	12 40	17 13	4 9	18 29
22	4	0 20	6 58	2 50	16 44	33	44	2	10	28
23	8	0 s 3	39	3 35	18 50	32	48	16 51	11	28
24	12	0 26	20	4 20	19 48	31	52	40	12	28
25	15	0 50	1	5 5	19 41	30	56	29	14	28
26	19	1 13	5 41	5 49	18 32	29	13 0	18	15	28
27	23	1 37	21	6 33	16 31	28	4	7	16	28
28	12 27	2 0	5 0	7 16	13 47	19 27	13 8	15 56	4 18	18 27
29	31	2 23	4 40	7 58	10 29	25	12	45	20	27
30	12 35	2 47	4 20	8 40	6 48	19 24	13 16	15 33	4 22	18 27

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October. 1887

New Moon October 16th in ♎22° 48′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♎′	° ♍′	° ♎′	° ♈′	° ♌′	° ♍′	° ♎′	° ♓′	° ♑′	° ♌′
1	7 58	22R49	23 2	0 50	4 32	8 6	22 8	12 34	29R52	16 6
2	8 57	24	24 34	12 41	36	18	22 45	38	51	3
3	9 57	0	26 6	24 33	41	31	23 21	42	50	0
4	10 56	21 39	27 36	6 ♉26	46	43	23 58	45	49	15 56
5	11 55	20	29 6	18 22	50	55	24 34	49	48	53
6	12 54	3	0♏35	0 ♊23	55	9 8	25 11	53	47	50
7	13 53	20 49	2 3	12 33	4 59	9 20	25 47	12 57	29 46	15 47
8	14 53	36	3 31	24 54	5 3	33	26 24	13 1	45	44
9	15 52	27	4 57	7 ♋29	7	45	27 0	4	44	41
10	16 51	20	6 23	20 24	12	58	27 36	8	43	37
11	17 51	15	7 47	3 ♌42	16	10 10	28 12	12	41	34
12	18 50	D13	9 11	17 25	19	23	28 49	16	40	31
13	19 49	14	10 34	1 ♍36	23	36	29 25	19	39	28
14	20 49	20 17	11 56	16 14	5 27	10 48	0 ♍ 1	13 23	29 37	15 26
15	21 49	22	13 17	1 ♎15	31	11 1	0 37	27	36	22
16	22 48	29	14 37	16 30	34	14	1 13	31	35	18
17	23 48	38	15 55	1 ♍49	37	27	1 48	34	33	15
18	24 47	50	17 13	17 1	41	40	2 24	38	32	12
19	25 47	21 4	18 29	1 ♐56	44	53	3 0	42	31	9
20	26 47	20	19 44	16 25	47	12 6	3 36	46	29	6
21	27 47	21 38	20 57	0 ♑25	5 50	12 19	4 11	13 49	29 28	15 3
22	28 46	58	22 8	13 55	53	32	4 46	53	27	14 59
23	29 46	22 19	23 18	26 57	56	45	5 22	56	25	56
24	0♍46	43	24 25	9 ♒36	59	58	5 58	14 0	24	53
25	1 46	23 8	25 31	21 55	6 1	13 11	6 33	4	23	50
26	2 46	35	26 34	4 ♓ 1	4	24	7 8	8	21	47
27	3 46	24 4	27 34	15 58	6	37	7 43	11	20	44
28	4 45	24 34	28 31	27 50	6 9	13 50	8 18	14 15	29 19	14 40
29	5 45	25 6	29 25	9 ♈40	11	14 3	8 53	19	18	37
30	6 45	39	0 ♐16	21 32	13	16	9 28	22	16	34
31	7 45	26 14	1 2	3 ♉26	6 15	14 29	10 3	14 26	29 14	14 30

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1887

Full Moon October 2nd in ♈ 8° 57′

Full Moon October 31st in ♉ 7° 45′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♃	♂	♅	♆
		S	S	S	S	N	S	N	S	N
1	12 39	3 10	3 59	9 22	2 52	19 23	13 20	15 21	4 23	18 26
2	43	3 33	40	10 2	1 N10	22	24	10	25	26
3	47	3 57	20	10 42	5 9	21	28	14 59	26	26
4	51	4 20	0	11 22	8 57	20	32	47	27	26
5	55	4 43	2 41	12 0	12 25	19	36	35	28	26
6	59	5 6	23	12 38	15 24	18	40	23	30	26
7	13 3	5 29	2 5	13 16	17 45	19 17	13 44	14 11	4 32	18 25
8	7	5 52	1 48	13 52	19 20	17	48	13 59	34	25
9	11	6 15	33	14 28	20 0	16	52	47	35	25
10	15	6 38	18	15 4	19 39	15	56	36	36	24
11	19	7 0	5	15 38	18 12	14	14 0	24	38	24
12	22	7 23	0 52	16 11	15 39	13	4	12	39	24
13	26	7 46	39	16 44	12 7	12	8	12 59	40	23
14	13 30	8 8	0 29	17 15	7 43	19 10	14 12	47	4 41	18 23
15	34	8 30	19	17 45	2 45	11	16	35	43	23
16	38	8 53	8	18 15	2 S27	10	20	22	45	22
17	42	9 15	0	18 43	7 32	10	25	10	47	22
18	46	9 37	N 7	19 11	12 5	9	29	11 58	48	22
19	50	9 58	14	19 38	15 48	8	33	45	49	22
20	54	10 20	19	20 3	18 25	8	37	33	50	22
21	13 58	10 41	0 23	20 27	19 50	19 7	14 41	11 21	4 52	18 22
22	14 2	11 3	27	20 51	20 3	6	45	8	54	21
23	6	11 24	29	21 12	19 10	6	49	10 56	56	21
24	10	11 45	31	21 32	17 19	5	53	43	57	21
25	14	12 6	32	21 52	14 43	4	57	30	58	20
26	18	12 26	31	22 8	11 30	4	15 1	18	59	20
27	22	12 47	30	22 24	7 52	4	5	5	5 0	20
28	14 26	13 7	0 29	22 40	3 57	19 3	15 9	9 52	5 2	18 19
29	30	13 27	26	22 51	0 N 6	3	13	40	4	19
30	33	13 47	23	23 2	4 9	3	17	27	5	18
31	14 37	14 6	0 19	23 13	8 4	19 2	15 21	9 14	5 6	18 17

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1887

New Moon November 15th ♏ 22° 50'

Longitude of the Planets

D	☉	☿	♂	☽	♃	♄	♅	♆	♇	☊
	° ♏ ′	° ♐ ′	° ♑ ′	° ♉ ′	° ♌ ′	° ♏ ′	° ♐ ′	° ♒ ′	° ♉ ′	° ♌ ′
1	8 45	26 50	1 43	15 24	6 17	14 42	10 38	14 30	29R13	14 27
2	9 46	27 27	2 19	27 28	19	56	11 13	33	12	24
3	10 46	28 6	2 50	9 ♊38	20	15 9	11 48	37	10	21
4	11 46	28 45	3 14	21 56	22	22	12 22	40	8	18
5	12 46	29 27	3 32	♋24	23	35	12 57	44	7	15
6	13 46	0 ♒ 9	3 41	17 4	24	48	13 31	47	5	12
7	14 47	0 53	3 43	29 58	6 26	16 2	14 5	14 51	29 3	14 8
8	15 47	1 37	3 R35	13♌11	27	15	14 40	54	2	5
9	16 47	2 22	3 19	26 46	28	28	15 14	57	0	2
10	17 47	3 9	2 51	10♍43	29	41	15 49	15 1	28 58	13 59
11	18 48	3 56	2 13	25 5	30	55	16 23	4	57	56
12	19 48	4 44	1 26	9 ♒49	30	17 8	16 57	7	55	53
13	20 49	5 34	0 29	24 50	31	21	17 31	11	53	49
14	21 49	6 24	29 24	9 ♎59	6 31	17 35	18 5	15 14	28 52	13 46
15	22 50	7 15	28♎9	25 6	32	48	18 38	17	50	43
16	23 50	8 6	26 53	10 ♐ 1	32	18 1	19 12	20	48	40
17	24 51	8 58	25 33	24 34	32	14	19 46	23	47	37
18	25 51	9 51	24 12	8 ♑40	32	27	20 19	26	45	34
19	26 52	10 45	22 53	22 17	R32	40	20 53	30	43	30
20	27 53	11 39	21 39	5 ♒26	32	54	21 26	33	42	27
21	28 53	12 34	20 33	18 9	6 31	19 7	21 59	15 36	28 40	13 24
22	29 54	13 30	19 35	0 ♓31	31	20	22 32	39	38	21
23	0 ♐ 55	14 26	18 48	12 37	30	33	23 5	42	37	18
24	1 55	15 23	18 13	24 33	30	46	23 38	45	35	15
25	2 56	16 20	17 49	6 ♈24	29	59	24 11	47	33	11
26	3 57	17 18	17 37	18 15	28	20 12	24 44	50	32	8
27	4 58	18 16	17 35	0 ♉ 7	27	25	25 17	53	30	5
28	5 58	19 15	17D44	12 6	6 26	20 38	25 49	15 56	28 28	13 1
29	6 59	20 15	18 3	24 12	25	51	26 21	59	26	12 58
30	8 0	21 15	18 31	6 ♊26	6 23	21 4	26 53	16 1	28 24	12 55

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1887

Full Moon November 30th in ♊ 8° 0′

Declination of the Planets

D	S T	☉	☿	♀	☽	♄	♅	♂	♃	♆
		S	N	S	N	N	S	N	S	N
1	14 41	14 26	0 14	23 20	11 41	19 1	15 24	9 1	5 7	18 17
2	45	45	7	23 23	14 51	1	28	8 49	9	17
3	49	15 4	0	23 26	17 26	1	32	36	11	17
4	53	22	s 6	23 29	19 15	1	36	23	12	16
5	57	41	15	23 24	20 10	1	40	10	13	16
6	15 1	59	24	23 19	20 5	1	44	7 57	14	16
7	15 5	16 17	0 32	23 13	18 58	19 0	15 48	7 44	5 15	18 15
8	9	34	43	22 59	16 48	0	52	32	16	15
9	13	52	54	22 45	13 39	0	56	19	17	15
10	17	17 9	1 4	22 30	9 39	0	59	6	19	14
11	21	26	17	22 5	4 59	0	16 3	6 54	20	14
12	25	42	29	21 39	0 s 4	0	7	41	21	14
13	29	58	41	21 13	5 12	18 59	11	28	23	13
14	15 33	18 14	1 55	20 38	10 4	18 59	15	16	5 24	18 13
15	37	29	2 9	20 27	14 17	59	19	3	25	13
16	40	45	22	19 27	17 32	19 0	22	5 50	27	12
17	44	59	38	18 49	19 35	0	26	37	28	12
18	48	19 14	53	18 10	20 20	0	30	24	29	12
19	52	28	3 8	17 31	19 51	0	33	11	30	11
20	56	42	25	16 58	18 18	0	37	4 59	31	11
21	16 0	19 55	3 41	16 25	15 51	19 0	16 41	4 47	5 32	18 10
22	4	20 8	57	15 52	12 44	1	44	34	34	9
23	8	21	4 15	15 33	9 9	1	48	22	35	9
24	12	34	32	15 13	5 16	1	51	9	36	9
25	16	45	49	14 53	1 12	2	54	3 56	37	8
26	20	57	47	14 49	2 N54	2	58	44	38	8
27	24	21 8	45	14 44	6 54	2	17 2	32	39	8
28	16 28	21 19	5 43	14 39	10 41	19 3	17 5	3 19	5 40	18 7
29	32	29	6 2	14 47	14 3	3	9	7	41	7
30	16 36	21 39	6 21	14 55	16 53	19 3	17 12	2 57	5 42	18 7

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1887

New Moon December 14th in ♐ 22° 13′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♐′	° ♑′	° ♏′	° ♊′	° ♌′	° ♏′	° ♏′	° ♑′	° ♈′	° ♌′
1	9 1	22 15	19 7	18 50	6 R22	21 17	27 25	16 3	28R22	12 52
2	10 2	23 16	19 50	1 ♎24	20	30	27 57	6	20	49
3	11 2	24 17	20 39	14 7	19	43	28 29	9	19	46
4	12 3	25 19	21 33	27 1	17	56	29 1	11	18	42
5	13 4	26 21	22 33	10♌ 8	15	22 9	29 33	14	17	39
6	14 5	27 23	23 37	23 27	13	21	0 ♑ 4	16	15	36
7	15 6	28 26	24 45	7 ♍ 2	6 11	22 34	0 36	16 19	28 13	12 33
8	16 7	29 29	25 55	20 53	9	47	1 7	21	12	29
9	17 8	0♍32	27 8	5 ♑ 1	6	23 0	1 39	23	10	26
10	18 9	1 38	28 24	19 25	4	13	2 10	26	8	23
11	19 10	2 40	29 41	4 ♍ 1	1	25	2 41	28	7	20
12	20 11	3 45	1 ♐ 1	18 46	5 59	37	3 11	30	5	17
13	21 12	4 50	2 22	3 ♐30	57	50	3 42	32	3	14
14	22 13	5 55	3 44	18 7	5 54	24 2	4 13	16 34	28 2	12 11
15	23 14	7 0	5 8	2 ♑28	51	15	4 43	36	1	8
16	24 16	8 6	6 33	16 29	48	27	5 13	38	27 59	4
17	25 17	9 12	7 58	0 ♒ 5	45	39	5 43	40	58	1
18	26 18	10 18	9 25	13 16	41	52	6 13	42	56	11 58
19	27 19	11 24	10 52	26 3	38	25 4	6 43	44	54	55
20	28 20	12 31	12 19	8 ♓30	35	16	7 12	46	52	52
21	29 21	13 37	13 47	20 40	5 31	25 28	7 42	16 48	27 51	11 49
22	0♑22	14 44	15 16	2 ♈39	28	40	8 11	49	50	45
23	1 23	15 52	16 45	14 31	24	52	8 40	51	48	42
24	2 24	16 59	18 15	26 23	21	26 4	9 9	52	47	39
25	3 26	18 7	19 45	8 ♉17	17	16	9 38	54	46	36
26	4 27	19 15	21 16	20 19	13	28	10 6	55	44	33
27	5 28	20 23	22 46	2 ♊31	9	40	10 35	57	43	30
28	6 29	21 21	24 17	14 55	5 5	26 51	11 3	16 58	27 42	11 26
29	7 30	22 39	25 49	27 33	1	27 3	11 31	17 0	41	23
30	8 31	23 48	27 21	10♎24	4 57	14	11 59	1	40	20
31	9 32	24 57	28 53	23 29	4 53	27 25	12 26	17 2	27 39	11 16

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1887

Full Moon December 30th in ♋ 8° 31′

Declination of the Planets

D	S T	☉ S	♀ S	☿ S	☽ N	♄ N	♅ S	♂ N	♃ S	♆ N
1	16 40	21 49	6 40	15 2	18 58	19 4	17 15	2 45	5 43	18 6
2	44	58	7 0	19	20 11	5	19	32	44	6
3	47	22 7	20	35	23	6	22	19	45	6
4	51	15	39	51	19 32	6	25	5	46	5
5	55	23	59	16 12	17 37	7	29	1 53	47	5
6	59	30	8 19	33	14 44	8	32	41	48	5
7	17 3	22 37	8 38	16 54	11 0	19 8	17 35	1 29	5 49	18 4
8	7	44	58	17 18	6 37	9	38	17	50	4
9	11	50	9 18	41	1 48	10	41	5	51	4
10	15	55	38	18 4	3 S12	10	44	0 53	52	3
11	19	23 1	59	28	8 5	11	48	42	53	3
12	23	5	10 19	51	12 33	12	51	30	54	3
13	27	10	39	19 14	16 14	12	54	18	54	2
14	17 31	23 13	10 59	19 37	18 52	19 13	17 57	0 7	5 55	18 2
15	35	17	11 19	20 0	20 16	14	18 0	S 5	56	2
16	39	20	39	23	21	15	3	16	56	1
17	43	22	59	44	19 14	16	6	28	57	1
18	47	24	12 19	21 5	17 5	17	9	39	58	1
19	51	25	39	26	14 9	17	12	50	58	0
20	55	26	59	45	10 39	19	15	1 1	59	0
21	17 58	23 27	13 18	22 3	6 47	19 21	18 18	1 12	6 0	18 0
22	18 2	27	37	21	2 42	22	20	24	0	0
23	6	27	57	37	1 N26	23	23	35	1	0
24	10	26	14 19	53	5 30	23	26	46	2	0
25	14	24	35	23 8	9 22	23	29	56	2	17 59
26	18	23	54	21	12 55	24	32	2 7	3	59
27	22	20	15 12	33	15 58	25	35	18	4	59
28	18 26	23 18	15 30	23 45	18 22	19 27	18 37	2 28	6 4	17 58
29	30	14	48	54	19 55	28	40	39	5	58
30	34	11	16 6	24 3	20 29	29	42	49	5	58
31	18 38	23 6	16 23	24 12	19 57	19 30	18 45	2 59	6 5	17 57

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	35	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8578	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5692	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3138
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	29
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	83
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	98	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	88	73	85	14	59	10	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	58	56	74	10	61	26	03	90	88	94	09

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1888

New Moon January 13th in ♒ 22° 47'

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♆	♇	☊
	° ♒′	° ♑′	° ♒′	° ♌′	° ♌′	° ♑′	° ♏′	° ♏′	° ♉′	° ♌′
1	10 34	26 6	0 25	6 47	4 R49	27 37	12 54	17 3	27R38	11 14
2	11 35	27 15	1 58	20 16	45	48	13 21	4	36	11
3	12 36	28 24	3 31	3 ♍56	40	28 0	13 48	5	35	8
4	13 37	29 33	5 5	17 46	36	11	14 15	6	34	4
5	14 38	0 ♐ 43	6 39	1 ♏44	31	22	14 41	7	33	1
6	15 39	1 53	8 13	15 50	27	33	15 8	8	32	10 58
7	16 41	3 2	9 48	0 ♍ 2	4 22	28 44	15 34	17 9	27 31	10 55
8	17 42	4 12	11 23	14 18	18	55	16 0	10	30	52
9	18 43	5 22	12 59	28 35	13	29 5	16 25	11	29	49
10	19 44	6 33	14 35	12 ♐ 49	9	16	16 51	11	28	45
11	20 45	7 43	16 11	26 57	4	27	17 16	12	28	42
12	21 46	8 54	17 48	10♑53	3 59	37	17 41	12	27	39
13	22 47	10 4	19 25	24 33	54	47	18 5	13	26	36
14	23 49	11 15	21 3	7 ♒56	3 50	29 58	18 29	17 13	27 26	10 33
15	24 50	12 25	22 42	21 0	45	0 ♐ 8	18 53	14	25	30
16	25 51	13 36	24 21	3 ♓45	40	18	19 17	14	24	26
17	26 52	14 47	26 0	16 12	35	28	19 41	14	24	23
18	27 53	15 58	27 40	28 24	30	38	20 4	15	23	20
19	28 54	17 9	29 21	10 ♈25	25	48	20 27	15	22	17
20	29 55	18 20	1 ♒ 2	22 20	20	57	20 49	15	22	14
21	0♒56	19 32	2 44	4 ♉12	3 15	1 7	21 12	17 15	27 21	10 11
22	1 57	20 43	4 26	16 7	10	16	21 34	15	20	7
23	2 58	21 54	6 9	28 9	5	26	21 55	R15	20	4
24	3 59	23 6	7 52	10♊22	0	35	22 17	15	20	1
25	5 0	24 18	9 36	22 51	2 56	44	22 38	15	19	9 57
26	6 1	25 29	11 20	5 ♋37	51	53	22 58	14	19	54
27	7 2	26 41	13 5	18 42	46	2 2	23 18	14	19	51
28	8 3	27 53	14 50	2 ♌ 7	2 41	2 11	23 38	17 14	27 18	9 48
29	9 4	29 4	16 36	15 49	36	19	23 58	13	18	45
30	10 5	0♒16	18 22	29 47	31	28	24 17	13	18	42
31	11 6	1 28	20 8	13♍56	2 26	2 36	24 36	17 12	27 17	9 38

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1888

Eclipse of Moon January 28th in ♌ 8° 3′

Declination of the Planets

☽	S T	☉ S	♀ S	☿ S	☽ N	♄ N	♅ S	♂ S	♃ S	♆ N
1	18 42	23 2	16 40	24 19	18 19	19 31	18 47	3 9	6 5	17 57
2	46	22 57	57	23	15 38	32	50	19	6	57
3	50	51	17 14	27	12 4	33	53	29	7	57
4	54	45	30	30	7 48	35	55	38	7	57
5	58	39	46	30	3 6	36	58	48	7	57
6	19 2	32	18 1	30	1 S49	37	19 0	58	7	57
7	19 5	22 25	18 16	24 30	6 39	19 38	19 2	4 7	6 8	17 56
8	9	17	31	26	11 8	39	5	17	8	56
9	13	9	45	22	15 0	40	7	26	8	56
10	17	0	59	17	17 59	42	9	35	8	56
11	21	21 51	19 12	9	19 51	43	11	44	8	56
12	25	41	25	0	20 29	44	13	53	8	56
13	29	31	38	23 51	19 52	46	15	5 2	9	55
14	19 33	21 21	19 50	23 38	18 8	19 47	19 17	5 11	6 9	17 55
15	37	10	20 1	25	15 29	48	19	19	9	55
16	41	20 59	12	12	12 9	49	21	27	9	55
17	45	48	23	22 54	8 21	50	23	36	9	55
18	49	36	33	36	4 17	51	25	44	9	55
19	53	23	43	18	0 7	53	27	52	9	55
20	57	11	52	21 56	4 N 1	54	29	6 0	9	55
21	20 1	19 57	21 0	21 34	7 58	19 55	19 31	6 8	6 9	17 55
22	5	44	8	11	11 38	57	33	15	9	54
23	9	30	15	20 44	14 52	58	35	23	9	54
24	13	16	22	17	17 31	59	37	30	9	54
25	16	1	29	19 50	19 24	20 0	38	37	9	54
26	20	18 47	34	19	20 22	1	40	44	9	54
♈	24	31	39	18 47	20 16	2	42	51	9	54
28	20 28	18 16	21 44	18 15	19 1	20 4	19 44	6 57	6 9	17 54
29	32	0	48	17 39	19 39	5	45	7 4	9	54
30	36	17 44	51	3	13 16	6	46	11	9	54
31	20 40	17 27	21 54	16 27	9 4	20 8	19 48	7 17	6 8	17 54

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1888

Eclipse of Sun February 11th in ♒ 22° 14′

Longitude of the Planets

D	☉	☿	♂	♃	♄	♅	♆	♇	☊
	° ♒′	° ♑′	° ♒′	° ♍′	° ♌′	° ♐′	° ♓′	° ♉′	° ♌′
1	12 7	2 40	21 54	28 13	2 R21	2 44	24 54	17R12	27R17	9 35
2	13 8	3 53	23 40	12♎32	17	52	25 12	11	17	32
3	14 8	5 5	25 26	26 51	12	3 0	30	10	17	29
4	15 9	6 17	27 11	11♏ 6	7	8	47	10	16	25
5	16 10	7 29	28 56	25 14	2	16	26 4	9	16	22
6	17 11	8 41	0♓39	9 ♐13	1 58	24	20	8	16	19
7	18 12	9 54	2 21	23 3	1 53	3 31	26 36	17 7	27D16	9 16
8	19 12	11 6	4 2	6 ♑42	48	39	51	6	16	13
9	20 13	12 19	5 40	20 8	44	46	27 6	5	16	10
10	21 14	13 31	7 16	3 ♒23	39	53	20	4	16	6
11	22 14	14 44	8 49	16 24	35	4 0	34	3	16	3
12	23 15	15 56	10 18	29 11	30	6	47	2	16	0
13	24 16	17 9	11 42	11♓45	26	13	28 0	1	17	8 57
14	25 16	18 22	13 3	24 6	1 22	4 20	28 12	17 0	27 17	8 54
15	26 17	19 34	14 16	6 ♈16	18	26	24	16 58	17	51
16	27 18	20 47	15 23	18 17	13	32	35	57	18	47
17	28 18	22 0	16 23	0 ♉11	9	38	46	56	18	44
18	29 19	23 13	17 16	12 3	5	44	56	54	18	41
19	0♓19	24 26	18 0	23 57	1	50	29 6	53	19	38
20	1 20	25 38	18 35	5 ♊57	0 57	55	15	51	19	35
21	2 20	26 51	19 1	18 8	0 53	5 1	29 23	16 50	27 19	8 32
22	3 20	28 4	19 17	0 ♋34	50	6	31	48	20	28
23	4 21	29 17	19 23	13 21	46	11	38	46	21	25
24	5 21	0♒30	19R20	26 31	42	16	45	45	22	22
25	6 21	1 43	19 6	10♌ 5	39	20	51	43	22	19
26	7 22	2 56	18 43	24 4	35	25	56	41	23	16
27	8 22	4 9	18 12	8 ♍24	32	30	0 ♏ 0	39	24	13
28	9 22	5 22	17 32	23 1	0 29	5 34	0 4	16 38	27 24	8 9
29	10 22	6 35	16 46	7 ♎47	0 26	5 38	0 7	16 36	27 25	8 6

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1888

Full Moon February 27th in ♍ 8° 22′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		S	S	S	N	S	S	S	S	N
1	20 44	17 10	21 56	15 48	4 21	20 9	19 50	7 23	6 8	17 54
2	48	16 53	57	15 7	0 s37	10	51	29	8	54
3	52	36	58	14 26	5 33	11	52	35	8	54
4	56	18	58	13 44	10 8	13	54	40	7	54
5	21 0	0	57	13 0	14 8	14	55	46	7	54
6	4	15 42	56	12 16	17 18	15	56	51	7	54
7	21 8	15 23	21 55	11 31	19 26	20 16	19 58	7 56	6 6	17 54
8	12	4	52	10 45	20 24	17	59	8 1	6	54
9	16	14 45	49	9 59	20 11	18	20 0	6	6	54
10	20	26	46	9 13	18 51	19	2	11	5	55
11	23	6	42	8 28	16 31	20	3	14	4	55
12	27	13 46	37	7 43	13 25	21	4	18	3	55
13	31	26	32	6 57	9 45	22	6	23	3	55
14	21 35	13 6	21 25	6 16	5 44	20 23	20 7	8 27	6 3	17 55
15	39	12 46	18	5 34	1 33	24	8	31	3	55
16	43	25	11	4 52	2 N38	25	9	34	2	55
17	47	4	3	4 18	6 41	26	10	38	1	55
18	51	11 43	20 55	3 44	10 28	27	11	41	0	55
19	55	22	46	3 9	13 50	28	12	44	0	56
20	59	0	36	2 46	16 41	29	13	47	5 59	56
21	22 3	10 39	20 25	2 22	18 50	20 30	20 14	8 49	5 58	17 56
22	7	17	14	1 58	20 9	31	15	51	58	56
23	11	9 55	2	48	20 28	32	16	53	57	56
24	15	33	19 50	37	19 42	33	17	55	56	56
25	19	11	38	26	17 46	34	17	57	56	57
26	23	8 49	24	31	14 45	35	18	58	55	57
27	27	26	10	35	10 46	36	19	59	54	57
28	22 31	8 4	18 56	1 39	6 5	20 36	20 19	9 0	5 54	17 58
29	22 34	7 41	18 41	1 54	0 59	20 37	20 20	9 1	5 53	17 58

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1888

New Moon March 12th in ♓ 22° 22'

Longitude of the Planets

D	☉	☿	♂	☽	♃	♅	♄	♆	♇	☊
	° ♓′	° ♒′	° ♓′	° ♑′	° ♌′	° ♐′	° ♍′	° ♑′	° ♉′	° ♌′
1	11 22	7 48	15R54	22 35	0 R22	5 42	0 10	16R34	27 26	8 3
2	12 22	9 1	14 57	7 ♏18	19	45	12	32	27	0
3	13 23	10 14	13 58	21 48	16	49	13	30	28	7 57
4	14 23	11 27	12 57	6 ♐ 2	14	52	13	28	28	53
5	15 23	12 41	11 55	19 58	11	55	R13	26	29	50
6	16 23	13 54	10 55	3 ♑36	8	58	12	24	30	47
7	17 23	15 7	9 58	16 57	0 6	6 1	0 10	16 22	27 31	7 44
8	18 23	16 20	9 5	0 ♒ 2	3	4	7	19	32	41
9	19 23	17 34	8 15	12 53	1	6	3	17	33	38
10	20 22	18 48	7 31	25 33	29 ♋59	9	29♎59	15	34	34
11	21 22	20 0	6 53	8 ♓ 1	56	11	54	13	35	31
12	22 22	21 13	6 21	20 21	54	13	49	10	36	28
13	23 22	22 24	5 55	2 ♈31	52	14	42	8	38	25
14	24 22	23 39	5 36	14 35	29 51	6 16	29 35	16 6	27 39	7 22
15	25 21	24 53	5 23	26 32	49	17	27	3	40	19
16	26 21	26 7	5 16	8 ♉25	47	19	18	1	42	15
17	27 21	27 20	5 D15	20 16	46	20	8	15 59	43	12
18	28 20	28 33	5 20	2 ♊ 9	44	20	28 58	56	44	9
19	29 20	29 47	5 31	14 7	43	21	47	54	46	6
20	0 ♈20	1 ♓ 0	5 47	26 14	42	21	35	1	47	3
21	1 19	2 13	6 9	8 ♋36	29 41	6 22	28 22	15 49	27 48	7 0
22	2 19	3 27	6 35	21 18	40	22	9	47	50	6 56
23	3 18	4 40	7 5	4 ♌24	39	R22	27 55	44	51	53
24	4 17	5 54	7 40	17 57	38	21	40	42	52	50
25	5 17	7 7	8 19	1 ♍58	37	21	24	39	54	47
26	6 16	8 20	9 2	16 28	37	20	8	37	56	44
27	7 15	9 34	9 48	1 ♎20	36	19	26 52	34	58	41
28	8 15	10 47	10 38	16 27	29 36	6 18	26 34	15 31	27 59	6 37
29	9 14	12 1	11 31	1 ♍39	36	17	16	29	28 1	34
30	10 13	13 14	12 27	16 45	35	15	25 58	26	3	31
31	11 12	14 27	13 26	1 ♐36	29 35	6 14	25 39	15 24	28 4	6 28

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1888

Full Moon March 27th in ♎ 7° 15′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	S	S	S	N	S	S	S	N
1	22 38	7 18	18 26	2 10	4 10	20 37	20 20	9 2	5 53	17 58
2	42	6 55	18 10	2 34	9 2	38	21	2	52	58
3	46	6 32	17 53	2 58	13 19	39	22	2	51	58
4	50	6 9	17 36	3 21	16 45	40	22	2	50	59
5	54	5 46	17 18	3 51	19 9	40	22	2	50	59
6	58	5 23	17 0	4 20	20 23	40	22	2	49	59
7	23 2	4 59	16 42	4 49	20 25	20 41	20 23	9 1	5 48	18 0
8	6	4 36	16 23	5 18	19 21	42	23	1	47	0
9	10	4 12	16 3	5 47	17 16	43	23	1	46	0
10	14	3 49	15 43	6 16	14 23	43	24	8 57	45	0
11	18	3 25	15 23	6 41	10 53	43	24	55	44	0
12	22	3 2	15 2	7 6	6 57	43	24	53	43	0
13	26	2 38	14 41	7 31	2 47	44	25	51	43	1
14	23 30	2 14	14 19	7 50	1 N26	20 45	20 25	8 48	5 42	18 1
15	34	1 51	13 57	8 8	5 34	46	25	45	41	1
16	38	1 27	13 35	8 26	9 28	46	25	43	40	2
17	41	1 3	13 12	8 38	12 59	46	25	38	39	2
18	45	0 39	12 49	8 50	16 0	46	25	35	38	2
19	49	0 16	12 25	9 1	18 23	47	25	33	37	3
20	53	0 N 8	12 1	9 6	19 58	47	25	29	36	3
21	23 57	0 32	11 37	9 11	20 39	20 47	20 25	8 25	5 35	18 3
22	0 1	0 55	11 13	9 15	20 17	48	25	21	34	4
23	5	1 19	10 48	9 13	18 50	48	25	16	33	4
24	9	1 43	10 23	9 11	16 17	48	25	12	32	5
25	13	2 6	9 57	9 9	12 42	48	25	8	31	6
26	17	2 30	9 31	9 1	8 15	48	25	3	30	6
27	21	2 53	9 5	8 53	3 13	48	25	7 58	29	6
28	0 25	3 16	8 39	8 44	2 S 7	20 49	20 24	7 52	5 28	18 7
29	29	3 40	8 12	8 31	7 19	49	24	47	27	7
30	33	4 3	7 46	8 18	12 3	49	24	41	26	7
31	0 37	4 26	7 19	8 4	15 58	20 49	20 23	7 35	5 25	18 8

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1888

New Moon April 11th in ♈ 22° 1′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♈′	° ♓′	° ♓′	° ♐′	° ♑′	° ♐′	° ♑′	° ♉′	° ♌′	° ♌′
1	12 11	15 41	14 28	16 5	29 36	6 R12	25R19	15R21	28 5	6 24
2	13 10	16 54	15 32	0 ♍10	36	10	24 59	19	7	21
3	14 9	18 8	16 39	13 49	36	8	24 38	16	9	18
4	15 8	19 21	17 48	27 4	36	6	24 17	13	11	15
5	16 7	20 35	18 59	9 ♒59	37	3	23 56	11	13	11
6	17 6	21 48	20 13	22 37	38	0	23 34	8	15	8
7	18 5	23 2	21 29	5 ♓ 2	29 38	5 57	23 12	15 6	28 16	6 5
8	19 4	24 15	22 47	17 16	39	54	22 50	3	18	2
9	20 3	25 28	24 6	29 23	40	51	22 27	0	20	5 59
10	21 2	26 42	25 28	11 ♈24	41	47	22 5	14 58	21	56
11	22 1	27 55	26 52	23 20	43	44	21 42	55	23	52
12	23 0	29 9	28 17	5 ♉14	44	40	21 19	53	25	49
13	23 58	0 ♈22	29 44	17 5	45	36	20 56	50	27	46
14	24 57	1 36	1 ♈13	28 57	29 47	5 32	20 33	14 48	28 29	5 43
15	25 56	2 49	2 43	10♊51	43	28	20 10	45	31	40
16	26 54	4 3	4 15	22 50	50	23	19 47	43	33	37
17	27 53	5 16	5 50	4 ♋57	52	19	19 25	40	35	33
18	28 52	6 30	7 26	17 17	54	14	19 2	38	37	30
19	29 50	7 43	9 3	29 55	56	9	18 40	35	39	27
20	0 ♉49	8 57	10 43	12♌54	58	4	18 18	33	41	24
21	1 47	10 10	12 24	26 20	0 ♌ 0	4 59	17 57	14 30	28 43	5 21
22	2 46	11 24	14 6	10♍15	3	54	17 36	28	45	18
23	3 44	12 37	15 50	24 40	5	48	17 15	26	47	14
24	4 42	13 50	17 36	9 ♎31	8	43	16 54	23	49	11
25	5 41	15 4	19 24	24 42	10	37	16 34	21	51	8
26	6 39	16 17	21 13	10♏ 2	13	31	16 15	18	54	4
27	7 37	17 31	23 5	25 21	16	25	15 56	16	56	1
28	8 35	18 44	24 57	10 ♐27	0 19	4 19	15 38	14 14	28 58	4 58
29	9 34	19 58	26 52	25 10	22	13	13 20	12	29 0	55
30	10 32	21 11	28 48	9 ♑27	0 25	4 6	15 3	14 9	29 2	4 52

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1888

Full Moon April 26th in ♏ 6° 39′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		N	S	S	S	N	S	S	S	N
1	0 41	4 49	6 52	7 47	18 47	20 49	20 23	7 29	5 24	18 8
2	45	5 12	6 25	7 27	20 23	49	22	23	23	9
3	48	5 35	5 58	7 7	20 43	49	21	17	22	10
4	52	5 58	5 30	6 47	19 52	49	21	11	21	10
5	56	6 21	5 2	6 23	17 59	49	21	5	20	10
6	1 0	6 44	4 34	5 58	15 15	49	21	6 58	19	10
7	1 4	7 6	4 6	5 33	11 52	20 48	20 20	6 51	5 18	18 11
8	8	7 28	3 38	5 5	8 2	48	19	45	17	11
9	12	7 51	3 10	4 36	3 54	48	18	38	16	11
10	16	8 13	2 41	4 7	0 N20	48	18	31	15	12
11	20	8 35	2 13	3 35	4 32	48	17	25	14	13
12	24	8 57	1 44	3 3	8 33	48	16	18	13	14
13	28	9 19	1 15	2 30	12 14	47	16	11	13	14
14	1 32	9 40	0 46	1 54	15 26	20 47	20 15	6 5	5 12	18 14
15	36	10 1	0 17	1 18	18 1	47	14	5 59	11	14
16	40	10 23	0 N11	0 41	19 51	46	13	52	10	15
17	44	10 44	0 40	0 N 2	20 48	46	12	46	9	15
18	48	11 5	1 9	0 37	20 46	46	11	40	8	15
19	52	11 25	1 37	1 16	19 42	45	11	33	7	16
20	56	11 46	2 6	1 58	17 34	45	10	27	6	17
21	1 59	12 6	2 35	2 40	14 26	20 45	20 9	5 21	5 5	18 18
22	2 3	12 26	3 4	3 23	10 23	44	8	15	4	18
23	7	12 46	3 33	4 8	5 37	43	7	10	3	18
24	11	13 6	4 2	4 53	0 23	42	6	5	2	18
25	15	13 25	4 30	5 37	4 S59	42	5	4 59	1	19
26	19	13 45	4 59	6 24	10 6	41	4	54	0	20
27	23	14 4	5 27	7 11	14 33	40	3	49	4 59	21
28	2 27	14 23	5 55	7 58	18 0	20 40	20 1	4 44	4 59	18 21
29	31	14 41	6 23	8 47	20 11	39	0	40	58	21
30	2 35	14 59	6 51	9 36	21 0	20 38	19 59	4 36	4 57	18 21

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1888

New Moon May 11th in ♉ 21° 10′

Longitude of the Planets

D	☉	♀	☿	☽	♄	♃	♂	♅	♆	☊
	° ♉′	° ♈′	° ♉′	° ♍′	° ♌′	° ♑′	° ♓′	° ♓′	° ♉′	° ♌′
1	11 30	22 25	0 47	23 14	0 28	4 R 0	14R47	14R 7	29 4	4 49
2	12 28	23 38	2 46	6 ♒34	31	3 53	31	5	7	46
3	13 26	24 51	4 47	19 29	35	47	16	3	9	43
4	14 24	26 5	6 51	2 ♓ 4	38	40	2	1	11	39
5	15 22	27 18	8 55	14 23	42	33	13 48	13 59	13	36
6	16 20	28 32	11 1	26 30	46	26	35	57	15	33
7	17 18	29 45	13 8	8 ♈29	0 49	3 19	13 23	13 55	29 17	4 30
8	18 16	0 ♉59	15 17	20 24	53	12	12	52	20	27
9	19 14	2 12	17 26	2 ♉16	57	5	1	51	22	24
10	20 12	3 26	19 36	14 8	1 1	2 58	12 51	49	24	20
11	21 10	4 39	21 47	26 1	6	50	42	47	27	17
12	22 8	5 53	23 58	7 ♊56	10	43	34	45	29	14
13	23 6	7 6	26 9	19 55	14	36	27	43	31	11
14	24 4	8 20	28 20	1 ♋59	1 18	2 28	12 20	13 41	29 33	4 8
15	25 2	9 33	0♊30	14 13	23	21	14	40	35	5
16	26 0	10 47	2 40	26 37	27	13	9	38	37	1
17	26 57	12 0	4 48	9 ♌17	32	6	5	36	40	3 58
18	27 55	13 13	6 56	22 15	37	1 58	2	35	42	55
19	28 53	14 27	9 1	5 ♍37	42	50	11 59	33	44	52
20	29 50	15 40	11 5	19 23	47	43	57	31	47	49
21	0♊48	16 54	13 7	3 ♎37	1 52	1 35	11 56	13 30	29 49	3 46
22	1 46	18 7	15 6	18 15	57	28	☌56	29	51	42
23	2 43	19 21	17 4	3 ♏14	2 2	20	57	27	54	39
24	3 41	20 34	18 58	18 26	7	12	58	26	56	36
25	4 38	21 48	20 50	3 ♐40	12	5	12 0	25	58	33
26	5 36	23 1	22 40	18 45	17	0 57	3	23	0 ♊ 0	30
27	6 34	24 15	24 27	3 ♑33	23	50	7	22	2	27
28	7 31	25 28	26 11	17 56	2 28	0 42	12 11	13 21	0 4	3 23
29	8 29	26 41	27 52	1 ♒51	34	34	16	20	7	20
30	9 26	27 55	29 31	15 18	39	27	22	19	9	17
31	10 23	29 8	1 ♋ 7	28 18	2 45	0 19	12 29	13 18	0 11	3 14

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1888

Full Moon May 25th in ♐ 4° 38′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♅	♂	♃	♆
		N	N	N	S	N	S	S	S	N
1	2 39	15 18	7 19	10 24	20 30	20 38	19 58	4 32	4 56	18 22
2	43	35	7 47	11 14	18 50	37	57	29	55	23
3	47	53	8 15	12 3	16 14	36	56	26	54	24
4	51	16 10	8 42	12 52	12 56	36	54	22	54	24
5	55	27	9 9	13 41	9 9	35	53	20	53	24
6	59	44	9 36	14 30	5 3	34	52	17	52	24
7	3 3	17 1	10 3	15 19	0 48	20 34	19 51	4 14	4 51	18 25
8	6	17	10 30	16 6	3 N27	33	50	13	50	26
9	10	33	10 56	16 53	7 34	32	49	11	49	27
10	14	48	11 22	17 40	11 23	32	47	9	49	27
11	18	18 4	11 48	18 24	14 46	31	45	9	48	27
12	22	19	12 14	19 7	17 34	30	43	8	47	27
13	26	34	12 39	19 50	19 39	29	42	7	47	28
14	3 30	18 48	13 4	20 28	20 51	20 28	19 41	4 8	4 46	18 28
15	34	19 2	13 29	21 6	21 6	27	40	9	45	28
16	38	16	13 53	21 43	20 19	26	38	10	45	29
17	42	29	14 17	22 14	18 31	25	37	10	44	30
18	46	43	14 41	22 45	15 43	24	36	10	43	31
19	50	55	15 4	23 16	12 2	23	34	10	43	31
20	54	20 8	15 27	23 39	7 37	22	33	12	43	31
21	3 58	20 20	15 50	24 2	2 39	20 21	19 32	4 14	4 43	18 31
22	4 2	32	16 12	24 25	2 S37	20	30	15	42	32
23	6	43	16 34	24 41	7 50	19	28	18	41	33
24	10	54	16 56	24 56	12 38	18	26	21	40	34
25	14	21 5	17 17	25 11	16 39	16	25	23	40	34
26	17	15	17 37	25 19	19 30	15	24	27	40	34
27	21	25	17 57	25 27	20 59	14	23	31	40	34
28	4 25	21 35	18 17	25 34	21 2	20 13	19 21	4 34	4 39	18 35
29	29	44	18 36	25 35	19 46	12	20	38	39	36
30	33	53	18 55	25 36	17 24	11	19	42	39	37
31	4 37	22 1	19 13	25 37	14 13	20 9	19 17	4 46	4 38	18 37

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1888

New Moon June 9th in ♊ 19° 0′

Longitude of the Planets

D	☉	☿	♂	♄	♃	♅	♆	Ω
	° ♊′	° ♊′	° ♋′	° ♓′	° ♑′	° ♐′	° ♐′	° ♑′
1	11 21	0 22	2 39	10 56	2 51	0 R12	12 36	13R17	0 13	3 11
2	12 18	1 35	4 9	23 16	56	5	44	16	16	♉
3	13 16	2 49	5 36	5 ♈23	3 2	29♏57	52	15	18	5
4	14 13	4 2	7 0	17 20	8	50	13 1	14	20	1
5	15 11	5 16	8 20	29 13	14	43	11	13	22	2 58
6	16 8	6 29	9 38	11 ♉ 4	20	36	22	12	24	55
7	17 5	7 43	10 53	22 57	3 26	29 29	13 33	13 12	0 26	2 51
8	18 3	8 57	12 4	4 ♊53	32	22	45	11	29	48
9	19 0	10 10	13 12	16 54	39	15	57	10	31	45
10	19 58	11 24	14 17	29 2	45	8	14 10	10	33	42
11	20 55	12 37	15 18	11♋18	51	2	23	9	35	39
12	21 52	13 51	16 16	23 44	58	28 55	37	9	37	36
13	22 50	15 4	17 10	6 ♌21	4 4	49	52	9	39	32
14	23 47	16 18	18 1	19 12	4 10	28 42	15 7	13 8	0 42	2 29
15	24 44	17 31	18 48	2 ♍18	17	37	23	8	44	26
16	25 41	18 45	19 32	15 42	24	30	40	8	46	23
17	26 39	19 59	20 11	29 26	30	24	57	8	48	20
18	27 36	21 12	20 46	13♎31	37	18	16 14	7	50	17
19	28 33	22 26	21 17	27 54	44	13	32	7	52	13
20	29 30	23 39	21 44	12♍34	50	7	50	D 7	54	10
21	0♋28	24 53	22 7	27 25	4 57	28 1	17 9	13 7	0 56	2 7
22	1 25	26 7	22 25	12 ♐20	5 4	27 56	28	8	58	4
23	2 22	27 20	22 38	27 9	11	51	48	8	1 0	1
24	3 19	28 34	22 47	11♑46	18	46	18 9	8	2	1 58
25	4 16	29 47	22 51	26 4	25	41	29	8	4	54
26	5 14	1 ♋ 1	22R51	9 ♒58	32	36	50	8	6	51
27	6 11	2 15	22 46	23 27	39	31	19 12	9	8	48
28	7 8	3 28	22 37	6 ♓32	5 46	27 27	19 34	13 9	1 9	1 45
29	8 5	4 42	22 23	19 14	53	22	56	10	11	42
30	9 2	5 56	22 5	1 ♈37	6 0	27 18	20 19	13 10	1 13	1 39

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1888

Full Moon June 23rd in ♈ 2° 22′

Declination of the Planets

☽	S T	☉	☿	♀	♂	♃	♄	♅	♆	♇
		N	N	N	S	N	S	S	S	N
1	4 41	22 9	25 34	19 31	10 28	20 8	19 15	4 51	4 37	18 37
2	45	17	28	48	6 22	7	14	56	37	37
3	49	24	22	20 5	2 5	6	13	5 1	37	37
4	53	31	15	21	2 N13	4	11	6	37	38
5	57	38	5	36	6 24	3	10	12	37	39
6	5 1	44	24 54	51	10 21	2	9	18	37	40
7	5 5	22 50	24 43	21 6	13 54	20 0	19 7	5 24	4 36	18 40
8	9	55	29	20	16 55	19 59	6	31	36	40
9	13	23 0	15	33	19 14	57	5	37	36	40
10	17	4	1	46	20 43	55	3	43	35	41
11	21	8	23 45	58	21 14	54	2	51	35	41
12	24	12	29	22 9	20 44	53	1	58	35	41
13	28	15	12	20	19 11	51	18 59	6 5	35	42
14	5 32	23 18	22 54	22 30	16 38	19 49	18 58	6 13	4 35	18 43
15	36	21	36	40	13 12	48	57	21	35	44
16	40	23	18	49	9 1	47	56	28	35	44
17	44	25	0	57	4 18	46	55	36	35	44
18	48	26	21 41	23 4	0 S45	44	54	44	35	44
19	52	27	22	11	5 53	42	53	52	35	45
20	56	27	4	17	10 46	41	52	7 1	35	45
21	6 0	23 27	20 46	23 23	15 4	19 39	18 51	7 10	4 35	18 45
22	4	27	28	28	18 25	37	50	18	35	46
23	8	26	11	32	20 32	36	49	27	35	46
24	12	25	19 54	36	21 15	34	48	36	35	46
25	16	23	37	39	20 33	32	47	45	35	47
26	20	21	22	40	18 35	31	46	55	35	47
27	24	18	7	41	15 38	29	45	8 4	35	47
28	6 28	23 16	23 43	18 52	11 59	19 27	18 44	8 13	4 36	18 48
29	31	12	40	42	7 53	26	43	23	36	48
30	6 35	23 9	23 41	18 28	3 34	19 24	18 42	8 33	4 36	18 48

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1888

Eclipse of Sun July 9th in ♋ 17° 37′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♋′	° ♋′	° ♋′	° ♈′	° ♌′	° ♏′	° ♒′	° ♒′	° ♊′	° ♌′
1	9 59	7 9	21R43	13 46	6 7	27R14	20 42	13 11	1 15	1 35
2	10 57	8 23	21 18	25 45	15	10	21 6	11	16	32
3	11 54	9 37	20 49	7 ♉ 38	22	7	21 30	12	18	29
4	12 51	10 51	20 17	19 31	29	3	21 54	13	20	26
5	13 48	12 4	19 42	1 ♊ 25	36	0	22 19	14	21	23
6	14 45	13 18	19 6	13 26	44	26 57	22 44	14	23	20
7	15 43	14 32	18 29	25 34	6 51	26 54	23 10	13 15	1 25	1 16
8	16 40	15 46	17 50	7 ♋ 54	59	51	23 36	16	26	13
9	17 37	17 0	17 12	20 24	7 6	48	24 2	17	28	10
10	18 34	18 13	16 34	3 ♌ 8	13	46	24 28	18	30	7
11	19 32	19 27	15 58	16 5	21	43	24 55	19	31	4
12	20 29	20 41	15 23	29 16	28	41	25 22	20	33	1
13	21 26	21 55	14 51	12♍40	36	40	25 49	22	35	0 57
14	22 23	23 9	14 22	26 17	7 43	26 38	26 17	13 23	1 36	0 54
15	23 21	24 23	13 57	10♎ 8	51	36	26 45	24	38	51
16	24 18	25 36	13 36	24 12	59	35	27 14	25	40	48
17	25 15	26 50	13 19	8 ♍ 26	8 6	34	27 43	27	41	45
18	26 12	28 4	13 7	22 48	14	33	28 12	28	43	42
19	27 10	29 18	13 1	7 ♐ 15	21	32	28 41	30	44	38
20	28 7	0♌32	13D 0	21 44	29	31	29 10	31	45	35
21	29 4	1 46	13 5	6 ♑ 7	8 37	26 31	29 40	13 33	1 47	0 32
22	0 ♌ 1	3 0	13 16	20 21	44	30	0♍10	34	49	29
23	0 59	4 14	13 32	4 ♒ 22	52	30	0 41	36	51	26
24	1 56	5 28	13 55	18 4	9 0	30	1 11	38	52	23
25	2 53	6 42	14 23	1 ♓ 27	7	D30	1 42	40	53	19
26	3 51	7 55	14 58	14 29	15	31	2 14	41	54	16
27	4 48	9 9	15 38	27 12	23	31	2 45	43	55	13
28	5 45	10 23	16 24	9 ♈ 37	9 30	26 32	3 17	13 45	1 56	0 10
29	6 43	11 37	17 17	21 48	38	33	3 49	47	57	7
30	7 40	12 51	18 15	3 ♉ 48	46	34	4 21	49	59	4
31	8 37	14 5	19 18	15 42	9 54	26 36	4 53	13 51	2 0	0 0

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1888

Eclipse of Moon July 23rd in ♒ 0° 59′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ N	♄ N	♅ S	♂ S	♃ S	♆ N
1	6 39	23 5	23 41	18 16	0 48	19 22	18 42	8 43	4 36	18 49
2	43	0	38	8	5 5	21	42	53	36	49
3	47	22 55	35	17 59	9 8	19	41	9 3	36	49
4	51	50	33	50	12 50	17	40	13	37	50
5	55	44	28	46	16 2	15	40	24	37	50
6	59	38	23	42	18 36	13	40	35	37	50
7	7 3	22 32	23 18	17 37	20 22	19 11	18 39	9 45	4 38	18 51
8	7	25	11	37	21 12	10	39	56	38	51
9	11	17	4	37	21 0	8	39	10 7	38	51
10	15	10	22 57	36	19 43	6	38	17	39	52
11	19	2	48	40	17 23	4	38	28	39	52
12	23	21 53	39	44	14 8	2	38	39	40	52
13	27	45	30	47	10 6	0	37	50	41	53
14	7 31	21 35	22 19	17 54	5 29	18 59	18 37	11 1	4 41	18 53
15	35	26	8	18 1	0 32	57	37	12	42	53
16	39	16	21 57	8	4 S30	55	36	23	43	54
17	42	6	45	18	9 22	53	36	34	43	54
18	46	20 55	32	28	13 45	51	36	45	43	54
19	50	44	19	37	17 21	49	36	57	44	55
20	54	33	4	49	19 53	47	36	12 9	44	55
21	7 58	20 21	20 49	19 0	21 8	18 45	18 36	12 21	4 45	18 55
22	8 2	9	34	11	20 59	43	37	32	46	56
23	6	19 57	18	23	19 32	41	37	44	46	56
24	10	44	2	35	16 57	39	37	55	47	56
25	14	31	19 45	46	13 31	37	38	13 6	48	56
26	18	18	27	57	9 30	35	38	18	49	56
27	22	4	9	20 7	5 10	33	38	30	50	56
28	8 26	18 50	18 50	20 17	0 44	18 31	18 39	13 41	4 51	18 57
29	30	36	31	25	3 N39	29	39	53	51	57
30	34	22	11	33	7 50	27	39	14 5	52	57
31	8 38	18 7	17 51	20 40	11 40	18 25	18 40	14 16	4 53	18 57

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1888

Eclipse of Sun August 7th in ♌ 15° 20′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♌′	° ♌′	° ♎′	° ♉′	° ♌′	° ♍′	° ♍′	° ♒′	° ♊′	° ♎′
1	9 35	15 19	20 27	27 35	10 1	26 37	5 26	13 53	2 1	29 57
2	10 32	16 33	21 42	9 ♊31	9	39	5 58	56	2	54
3	11 30	17 47	23 2	21 34	17	41	6 31	58	3	51
4	12 27	19 2	24 27	3 ♋49	24	43	7 4	14 0	4	47
5	13 25	20 16	25 57	16 18	32	45	7 38	2	5	44
6	14 22	21 30	27 31	29 3	40	48	8 12	4	6	41
7	15 20	22 44	29 9	12♌ 6	10 48	26 50	8 46	14 7	2 7	29 38
8	16 17	23 58	0♌51	25 26	55	53	9 20	9	8	35
9	17 15	25 12	2 38	9 ♍ 2	11 3	56	9 54	12	9	32
10	18 13	26 26	4 26	22 52	11	59	10 29	14	10	28
11	19 10	27 40	6 18	6 ♎52	18	27 2	11 4	17	11	25
12	20 8	28 54	8 13	21 0	26	6	11 39	19	11	22
13	21 6	0 ♍ 8	10 9	5 ♍13	34	9	12 14	22	12	19
14	22 3	1 22	12 7	19 27	11 41	27 13	12 49	14 24	2 12	29 16
15	23 1	2 37	14 7	3 ♐40	49	17	13 25	27	13	13
16	23 59	3 51	16 7	17 49	57	21	14 1	30	14	9
17	24 56	5 5	18 8	1 ♑53	12 4	25	14 37	33	15	6
18	25 54	6 19	20 9	15 49	12	30	15 13	35	16	3
19	26 52	7 33	22 10	29 36	19	35	15 49	38	16	28 59
20	27 50	8 47	24 10	13♒12	27	39	16 25	41	16	56
21	28 47	10 1	26 11	26 35	12 34	27 44	17 2	14 44	2 17	28 53
22	29 45	11 16	28 10	9 ♓43	42	49	17 39	47	17	50
23	0♍43	12 30	0 ♍ 9	22 35	49	55	18 16	50	18	47
24	1 41	13 44	2 8	5 ♈12	57	28 0	18 53	53	18	44
25	2 39	14 58	4 5	17 34	13 4	6	19 30	56	18	40
26	3 37	16 12	6 1	29 44	12	11	20 7	59	18	37
27	4 35	17 26	7 56	11 ♉43	19	17	20 45	15 2	19	34
28	5 33	18 40	9 49	23 37	13 26	28 23	21 23	15 5	2 19	28 31
29	6 31	19 55	11 42	5 ♊29	34	29	22 1	8	20	28
30	7 29	21 9	13 33	17 24	41	36	22 39	11	20	25
31	8 27	22 23	15 23	29 27	13 48	28 42	23 17	14	2 20	28 21

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1888

Full Moon August 21st in ♒ 28° 47′

Declination of the Planets

D	S T	☉ N	♀ N	♂ N	☽ N	♃ N	♅ S	♄ S	♆ S	♇ N
1	8 42	17 52	17 30	20 45	15 3	18 23	18 41	14 28	4 54	18 57
2	46	17 36	17 9	46	17 50	21	41	40	55	57
3	49	17 20	16 47	48	19 52	19	42	52	56	57
4	53	17 4	16 25	50	21 2	17	43	15 3	57	58
5	57	16 48	16 2	45	21 10	15	43	15	58	58
6	9 1	16 32	15 39	40	20 14	13	44	27	59	58
7	9 5	16 15	15 16	20 34	18 12	18 11	18 45	15 38	4 59	18 58
8	9	15 58	14 52	22	15 9	9	46	50	5 0	58
9	13	15 40	14 28	9	11 4	7	47	16 1	1	58
10	17	15 23	14 3	19 56	6 40	5	48	12	2	58
11	21	15 5	13 38	36	1 42	3	49	24	3	58
12	25	14 47	13 12	15	3 s24	1	50	36	4	58
13	29	14 28	12 46	18 54	8 20	17 59	51	47	5	59
14	9 33	14 10	12 20	18 26	12 50	17 57	18 52	16 59	5 6	18 59
15	37	13 52	11 54	17 58	16 35	55	53	17 10	7	59
16	41	13 32	11 27	17 29	19 22	53	54	21	9	59
17	45	13 13	11 0	16 55	20 56	51	56	32	10	59
18	49	12 53	10 32	16 20	21 12	49	57	43	11	59
19	53	12 34	10 4	15 45	20 11	47	58	54	12	59
20	57	12 14	9 36	15 6	17 59	45	59	18 5	13	59
21	10 0	11 54	9 8	14 26	14 50	17 43	19 0	18 16	5 14	18 59
22	4	11 34	8 40	13 46	11 0	41	2	27	15	59
23	8	11 13	8 11	13 3	6 44	39	3	38	16	59
24	12	10 53	7 42	12 20	2 16	37	4	49	17	59
25	16	10 32	7 13	11 37	2 N13	35	6	19 0	19	59
26	20	10 11	6 44	10 52	6 31	33	8	11	20	59
27	24	9 50	6 14	10 7	10 31	31	10	21	21	59
28	10 28	9 29	5 44	9 22	14 5	17 29	19 11	19 31	5 22	18 59
29	32	9 7	5 14	8 36	17 4	27	12	42	23	59
30	36	8 46	4 44	7 50	19 22	25	13	52	24	59
31	10 40	8 24	4 14	7 3	20 49	17 23	19 15	20 2	5 26	18 59

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1888

New Moon September 6th in ♍ 14° 16′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♍′	° ♍′	° ♍′	° ♋′	° ♌′	° ♍′	° ♍′	° ♏′	° ♊′	° ♋′
1	9 25	23 37	17 12	11 44	13 56	28 49	23 55	15 18	2 R20	28 18
2	10 23	24 51	19 0	24 17	14 3	56	24 34	21	20	15
3	11 21	26 6	20 46	7 ♌12	10	29 3	25 13	24	20	12
4	12 20	27 20	22 32	20 29	17	10	25 51	27	20	8
5	13 18	28 34	24 16	4 ♍ 8	24	17	26 30	31	20	5
6	14 16	29 48	25 59	18 9	31	24	27 9	34	20	2
7	15 14	1 ♎ 2	27 40	2 ♎27	14 38	29 31	27 49	15 37	2 20	27 59
8	16 13	2 17	29 21	16 56	45	39	28 28	41	19	56
9	17 11	3 31	1 ♎ 1	1 ♏29	52	47	29 8	44	19	53
10	18 10	4 45	2 39	16 1	59	55	29 47	48	19	49
11	19 8	5 59	4 16	0 ♐25	15 6	0 ♐ 3	0 ♐27	51	19	46
12	20 6	7 13	5 52	14 39	13	11	1 7	55	18	43
13	21 5	8 27	7 27	28 41	20	19	1 47	58	18	40
14	22 3	9 42	9 1	12♑29	15 26	0 27	2 27	16 2	2 18	27 37
15	23 2	10 56	10 34	26 5	33	36	3 8	5	17	34
16	24 0	12 10	12 6	9 ♒28	40	44	3 48	9	17	30
17	24 59	13 24	13 37	22 40	46	53	4 29	12	17	27
18	25 58	14 38	15 7	5 ♓40	53	1 2	5 10	16	16	24
19	26 56	15 52	16 36	18 29	59	11	5 50	20	16	21
20	27 55	17 7	18 4	1 ♈ 7	16 6	20	6 31	23	16	18
21	28 54	18 21	19 30	13 32	16 12	1 29	7 12	16 27	2 15	27 15
22	29 52	19 35	20 56	25 47	19	38	7 54	31	14	11
23	0♎51	20 49	22 20	7 ♉52	25	48	8 35	34	14	8
24	1 50	22 3	23 44	19 49	31	57	9 16	38	14	5
25	2 49	23 17	25 6	1 ♊40	37	2 7	9 58	42	13	2
26	3 48	24 31	26 27	13 30	43	16	10 39	45	12	26 59
27	4 47	25 45	27 47	25 23	49	26	11 21	49	11	56
28	5 46	27 0	29 5	7 ♋23	16 55	2 36	12 3	16 56	2 10	26 52
29	6 45	28 14	0♏23	19 37	17 1	46	12 45	56	9	49
30	7 44	29 28	1 39	2 ♌10	17 7	2 56	13 27	17 0	2 9	26 46

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1888

Full Moon September 20th in ♐ 27° 55′

Declination of the Planets

D	S T	☉	♀	♂	☽	♃	♅	♂	♅	♆
		N	N	N	N	N	S	S	S	N
1	10 44	8 2	3 44	6 16	21 19	17 21	19 17	20 12	5 27	18 59
2	48	7 40	3 14	5 29	20 46	19	18	22	28	59
3	52	7 18	2 44	4 42	19 7	17	20	32	29	59
4	56	6 56	2 13	3 55	16 24	15	22	41	31	59
5	11 0	6 34	1 42	3 9	12 42	13	23	51	32	59
6	4	6 11	1 11	2 23	8 14	11	25	21 1	33	59
7	11 7	5 49	0 40	1 36	3 13	17 9	19 27	21 10	5 35	18 59
8	11	5 26	0 s 9	0 50	2 s 2	7	29	19	36	59
9	15	5 4	0 21	0 4	7 11	5	31	28	37	59
10	19	4 41	0 s 52	0 s 42	11 56	3	33	37	39	59
11	23	4 18	1 23	1 27	15 57	2	35	46	40	59
12	27	3 55	1 54	2 12	18 59	0	37	55	41	59
13	31	3 32	2 25	2 56	20 50	16 58	38	22 3	43	59
14	11 35	3 9	2 56	3 42	21 24	16 56	19 40	22 11	5 44	18 59
15	39	2 46	3 27	4 27	20 40	54	42	19	45	59
16	43	2 23	3 57	5 6	18 46	52	44	27	47	58
17	47	1 59	4 28	5 48	15 54	51	46	35	49	58
18	51	1 36	4 58	6 30	12 16	49	48	43	51	58
19	55	1 13	5 28	7 12	8 7	47	50	50	52	58
20	59	0 50	5 59	7 52	3 40	45	52	58	53	58
21	12 3	0 . 26	6 29	8 32	0 N51	16 43	19 54	23 5	5 54	18 58
22	7	0 3	6 59	9 12	5 16	41	56	12	56	57
23	11	0 s21	7 29	9 50	9 25	40	58	19	57	57
[illegible]	15	0 44	7 59	10 28	13 10	38	20 0	25	58	57
25	18	1 7	8 28	11 6	16 22	36	2	31	6 0	57
26	22	1 31	8 57	11 42	18 54	35	5	37	1	57
27	26	1 54	9 26	12 18	20 39	33	7	43	2	57
28	12 30	2 18	9 56	12 53	21 28	16 31	20 9	23 49	6 4	18 56
29	34	2 41	10 25	13 26	21 18	29	11	55	6	56
30	12 38	3 4	10 54	13 59	20 4	16 27	20 13	24 1	6 8	18 56

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1888

New Moon October 5th in ♎ 12° 39′.

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♎′	° ♏′	° ♏′	° ♌′	° ♌′	° ♐′	° ♐′	° ♎′	° ♊′	° ♋′
1	8 43	0 42	2 53	15 5	17 13	3 7	14 9	17 4	2 R 8	26 43
2	9 42	1 56	4 6	28 27	18	17	14 52	8	7	39
3	10 41	3 10	5 17	12♍16	24	27	15 34	11	6	36
4	11 40	4 24	6 26	26 33	30	38	16 16	15	5	33
5	12 39	5 38	7 34	11♎11	35	49	16 59	19	4	30
6	13 39	6 52	8 39	26 5	41	59	17 42	22	3	27
7	14 38	8 6	9 42	11♏ 5	17 46	4 10	18 25	17 26	2 2	26 24
8	15 37	9 20	10 43	26 0	51	21	19 7	30	1	20
9	16 37	10 34	11 41	10♐44	57	32	19 50	34	0	17
10	17 36	11 49	12 36	25 10	18 2	43	20 34	38	1 59	14
11	18 36	13 3	13 28	9♑16	7	54	21 17	42	58	11
12	19 35	14 17	14 17	23 2	12	5 5	22 0	45	57	8
13	20 34	15 31	15 1	6♒28	18	17	22 43	49	56	5
14	21 34	16 45	15 42	19 36	18 21	5 28	23 27	17 53	1 55	26 2
15	22 33	17 59	16 17	2♓30	26	39	24 10	57	54	25 59
16	23 33	19 13	16 48	15 12	31	51	24 54	18 0	52	55
17	24 33	20 27	17 13	27 43	36	6 3	25 38	4	50	52
18	25 32	21 41	17 32	10♈ 5	40	14	26 22	8	49	49
19	26 32	22 54	17 44	22 18	44	26	27 5	12	48	46
20	27 32	24 8	17R49	4♉23	49	38	27 49	16	46	42
21	28 31	25 22	17 46	16 22	18 53	6 50	28 33	18 19	1 45	25 39
22	29 31	26 36	17 35	28 15	57	7 2	29 17	23	44	36
23	0♏31	27 50	17 15	10♊ 5	19 1	14	0♍ 2	27	43	33
24	1 31	29 4	16 46	21 54	5	26	0 46	31	42	30
25	2 31	0♐18	16 8	3♋45	9	38	1 30	34	40	27
26	3 31	1 32	15 21	15 44	13	50	2 15	38	38	24
27	4 30	2 46	14 25	27 54	16	8 2	2 59	42	36	20
28	5 30	4 0	13 22	10♌22	19 20	8 15	3 44	18 45	1 35	25 17
29	6 30	5 13	12 12	23 13	24	27	4 28	49	33	14
30	7 30	6 27	10 57	6♍30	27	40	5 13	53	32	11
31	8 31	7 41	9 39	20 17	19 30	8 52	5 58	18 56	1 31	25 8

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1888

Full Moon October 19th in ♈ 26° 32′

Declination of the Planets

D	S T	☉ S	♀ S	☿ S	☽ N	♄ N	♅ S	♂ S	♆ S	♇ N
1	12 42	3 28	11 22	14 32	17 45	16 26	20 15	24 6	6 9	18 56
2	46	3 51	11 50	15 3	14 26	25	18	11	10	56
3	50	4 14	12 18	15 33	10 14	23	20	16	11	56
4	54	4 37	12 45	16 3	5 20	21	22	20	13	55
5	58	5 0	13 12	16 30	0 0	19	24	24	14	55
6	13 2	5 23	13 39	16 56	5 S 24	18	26	28	15	55
7	13 6	5 46	14 6	17 22	10 32	16 17	20 28	24 32	6 17	18 54
8	10	6 9	14 32	17 45	15 0	16	30	36	19	54
9	14	6 32	14 58	18 8	18 29	14	32	40	21	54
10	18	6 55	15 24	18 30	20 44	12	34	43	22	54
11	22	7 18	15 49	18 48	21 37	10	37	46	23	54
12	25	7 40	16 14	19 6	21 10	9	39	49	24	54
13	29	8 3	16 38	19 23	19 30	8	41	51	26	53
14	13 33	8 25	17 2	19 35	16 48	16 6	20 43	24 53	6 27	18 53
15	37	8 47	17 26	19 46	13 20	5	45	55	28	53
16	41	9 9	17 49	19 57	9 19	4	47	57	30	52
17	45	9 31	18 11	10 1	4 56	2	50	58	32	52
18	49	9 53	18 33	20 5	0 25	1	52	59	34	52
19	53	10 15	18 55	20 8	4 N 4	0	54	25 1	35	51
20	57	10 36	19 16	20 2	8 20	15 59	56	1	36	51
21	14 1	10 57	19 37	19 56	12 16	15 58	20 58	25 1	6 37	18 51
22	5	11 19	19 57	19 50	15 41	57	21 0	2	39	50
23	9	11 40	20 17	19 32	18 28	56	3	2	40	50
24	13	12 1	20 36	19 15	20 28	55	5	2	41	50
25	17	12 21	20 55	18 56	21 35	54	7	1	43	49
26	21	12 42	21 13	18 25	21 44	53	9	0	44	49
27	25	13 2	21 30	17 54	20 51	52	11	24 59	45	49
28	14 29	13 22	21 47	17 23	18 57	15 51	21 13	24 58	6 47	18 48
29	32	13 42	22 3	16 41	16 4	50	15	56	49	48
30	36	14 2	22 19	16 0	12 15	49	17	54	51	48
31	14 40	14 21	22 34	15 19	7 40	15 48	21 19	24 52	6 52	18 47

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1888

New Moon November 4th in ♏ 12° 31'

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♏ ′	° ♐ ′	° ♏ ′	° ♑ ′	° ♌ ′	° ♐ ′	° ♑ ′	° ♒ ′	° ♊ ′	° ♋ ′
1	9 31	8 55	8 R21	4 34	19 34	9 5	6 43	19 0	1 R30	25 4
2	10 31	10 9	7 5	19 19	37	17	7 28	3	29	1
3	11 31	11 22	5 53	4 ♏ 23	40	30	8 13	7	27	24 58
4	12 31	12 36	4 48	19 39	43	43	8 58	11	25	55
5	13 31	13 50	3 52	4 ♐ 54	45	55	9 43	14	24	52
6	14 32	15 4	3 6	19 57	48	10 8	10 28	18	22	49
7	15 32	16 18	2 31	4 ♑ 42	19 51	10 21	11 13	19 21	1 20	24 45
8	16 32	17 31	2 7	19 1	53	34	11 58	25	19	42
9	17 33	18 45	1 55	2 ♒ 55	56	47	12 44	28	17	39
10	18 33	19 59	1 55	16 23	58	11 0	13 29	32	15	36
11	19 34	21 12	2 D 5	29 29	20 0	13	14 15	35	14	33
12	20 34	22 26	2 26	12 ♓ 16	2	26	15 6	38	12	30
13	21 34	23 40	2 56	24 47	4	39	15 46	42	10	26
14	22 35	24 53	3 34	7 ♈ 6	20 6	11 52	16 31	19 45	1 9	24 23
15	23 35	26 7	4 20	19 16	8	12 5	17 17	48	7	20
16	24 36	27 20	5 13	1 ♉ 19	10	19	18 3	52	5	17
17	25 36	28 34	6 11	13 16	11	32	18 49	55	4	14
18	26 37	29 48	7 15	25 9	13	45	19 34	58	2	11
19	27 38	1 ♑ 1	8 23	7 ♊ 0	14	58	20 20	20 1	0	7
20	28 38	2 14	9 35	18 50	15	13 12	21 6	5	0 59	4
21	29 39	3 28	10 51	0 ♋ 41	20 16	13 25	21 52	20 8	0 57	24 1
22	0 ♐ 39	4 41	12 9	12 36	17	38	22 38	11	55	23 58
23	1 40	5 55	13 29	24 37	18	52	23 24	14	54	55
24	2 41	7 8	14 52	6 ♌ 50	19	14 5	24 10	17	52	52
25	3 42	8 21	16 16	19 17	20	19	24 56	20	50	48
26	4 42	9 35	17 42	2 ♍ 3	20	32	25 42	23	49	45
27	5 43	10 48	19 9	15 13	20	46	26 29	26	47	42
28	6 44	12 1	20 36	28 50	20 21	14 59	27 15	20 29	0 45	23 38
29	7 45	13 14	22 5	12 ♎ 56	21	15 13	28 1	32	44	35
30	8 46	14 28	23 35	27 30	20 21	15 26	28 47	20 35	0 42	23 32

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1888

Full Moon November 18th in ♉ 26° 37′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		S	S	S	N	N	S	S	S	N
1	14 44	14 40	22 48	14 34	2 31	15 47	21 21	24 50	6 53	18 47
2	48	59	23 1	13 52	2 s55	47	23	47	54	47
3	52	15 18	14	10	8 20	46	25	44	55	47
4	56	36	27	12 28	13 17	45	27	41	57	46
5	15 0	55	38	11 57	17 23	45	29	38	59	46
6	4	16 13	49	26	20 16	44	31	34	7 0	46
7	15 8	16 30	24 0	10 55	21 43	15 43	21 33	24 30	7 1	18 45
8	12	48	9	41	21 42	43	35	26	2	45
9	16	17 5	18	27	20 19	42	37	22	3	45
10	20	22	27	13	17 49	41	39	17	5	44
11	24	38	34	15	14 27	41	41	12	6	44
12	28	54	41	17	10 29	41	43	7	7	44
13	32	18 10	48	18	6 9	40	45	1	9	43
14	15 36	18 26	24 53	10 33	1 39	15 40	21 47	23 55	7 10	18 43
15	40	41	51	47	2 N52	40	49	49	11	43
16	43	56	25 1	11 1	7 14	39	50	42	12	42
17	47	19 10	4	24	11 17	39	52	36	13	42
18	51	25	7	47	14 54	39	54	29	14	42
19	55	39	9	12 9	17 54	38	56	22	16	41
20	59	52	9	37	20 10	38	58	15	17	41
21	16 3	20 5	25 9	13 5	21 34	15 38	22 0	23 7	7 18	18 41
22	7	18	9	32	22 0	37	1	22 59	20	40
23	11	31	6	14 2	21 25	37	3	51	21	40
24	15	43	4	32	19 50	37	5	42	22	40
25	19	54	2	15 1	17 17	37	6	33	23	39
26	23	21 5	24 58	31	13 50	37	8	24	24	39
27	27	16	54	16 1	9 37	37	10	15	25	39
28	16 31	21 27	24 49	16 31	4 48	15 37	22 11	22 6	7 26	18 38
29	35	37	43	17 0	0 s25	37	13	21 56	27	38
30	16 39	21 47	24 37	29	5 48	15 37	22 15	21 46	7 28	18 38

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1888

New Moon December 3rd in ♐ 11° 48′

Longitude of the Planets

D	☉	☿	♂	♃	♄	♅	♆	♇	☊
	° ♐′	° ♑′	° ♏′	° ♏′	° ♌′	° ♐′	° ♑′	° ♓′	° ♋′
1	9 47	15 41	25 5	12 27	20R21	15 40	29 34	20 37	0 R40	23 29
2	10 47	16 54	26 35	27 39	21	53	0♒20	40	39	26
3	11 48	18 7	28 6	12 ♐ 57	21	16 7	1 6	43	37	23
4	12 49	19 20	29 38	28 9	20	20	1 53	46	35	19
5	13 50	20 33	1 ♐ 9	13♑ 6	20	34	2 39	48	34	16
6	14 51	21 46	2 41	27 40	19	48	3 26	51	32	13
7	15 52	22 59	4 13	11♒47	20 19	17 1	4 12	20 53	0 30	23 10
8	16 53	24 12	5 46	25 26	18	15	4 59	56	29	7
9	17 54	25 25	7 18	8 ♓39	17	28	5 46	58	27	4
10	18 55	26 38	8 51	21 29	16	42	6 32	21 1	25	0
11	19 56	27 50	10 23	3 ♈59	15	56	7 19	3	24	22 57
12	20 57	29 3	11 56	16 14	14	18 9	8 5	6	23	54
13	21 58	0♒16	13 29	28 18	12	23	8 52	8	21	51
14	22 59	1 28	15 2	10♉14	20 11	18 36	9 39	21 10	0 20	22 48
15	24 0	2 41	16 35	22 6	9	50	10 26	12	18	45
16	25 2	3 53	18 9	3 ♊56	7	19 4	11 12	15	16	41
17	26 3	5 6	19 48	15 47	6	17	11 59	17	15	38
18	27 4	6 18	21 16	27 40	4	31	12 46	19	13	35
19	28 5	7 30	22 50	9 ♋38	2	44	13 33	21	11	32
20	29 6	8 42	24 24	21 42	0	58	14 19	23	9	29
21	0 ♑ 7	9 55	25 58	3 ♌54	19 57	20 11	15 6	21 25	0 8	22 26
22	1 8	11 7	27 32	16 16	55	25	15 53	27	7	22
23	2 9	12 19	29 7	28 52	53	38	16 40	29	5	19
24	3 10	13 30	0♑42	11♍43	50	52	17 26	30	4	16
25	4 12	14 42	2 17	24 52	48	21 5	18 13	32	3	13
26	5 13	15 54	3 52	8 ♎23	45	19	19 0	34	2	10
27	6 14	17 6	5 28	22 16	42	32	19 47	35	1	7
28	7 15	18 17	7 4	6 ♍32	19 39	21 45	20 34	21 37	29♉59	22 3
29	8 16	19 29	8 40	21 8	36	59	21 21	39	57	0
30	9 17	20 40	10 17	6 ♐ 0	33	22 12	22 7	40	56	21 57
31	10 19	21 51	11 54	21 1	19 30	22 26	22 54	21 42	29 55	21 54

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1888

Full Moon December 18th in ♊ 27° 4′

Declination of the Planets

☽	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		S	S	S	S	N	S	S	S	N
1	16 43	21 56	24 30	17 59	10 58	15 38	22 16	21 36	7 29	18 37
2	47	22 5	24 21	18 27	15 34	39	17	26	30	37
3	50	13	24 12	55	19 9	40	18	16	31	37
4	54	21	24 3	19 22	21 22	40	20	5	32	36
5	58	28	23 53	48	22 2	40	21	20 54	33	36
6	17 2	36	23 42	20 13	21 10	40	22	43	34	36
7	17 6	22 42	23 31	20 38	18 59	15 40	22 24	20 31	7 35	18 35
8	10	48	23 18	21 1	15 47	40	25	19	36	35
9	14	54	23 5	24	11 52	40	26	7	37	35
10	18	59	22 52	46	7 31	41	28	19 55	38	34
11	22	23 4	22 38	22 6	2 58	42	29	43	39	34
12	26	9	22 23	26	1 N36	43	30	30	40	34
13	30	13	22 8	45	6 2	43	32	17	41	33
14	17 34	23 16	21 52	23 2	10 12	15 44	22 33	19 4	7 41	18 33
15	38	19	21 35	18	13 57	45	34	18 51	42	33
16	42	22	21 18	34	17 10	45	36	38	43	32
17	46	24	21 0	47	19 40	46	37	25	44	32
18	50	25	20 41	24 0	21 20	47	38	11	45	32
19	54	26	20 22	13	22 3	47	39	17 57	45	31
20	58	27	20 2	22	21 45	48	40	43	46	31
21	18 1	23 27	19 42	24 31	20 25	15 49	22 41	17 29	7 47	18 31
22	5	27	19 22	40	18 6	50	43	14	47	31
23	9	26	19 1	42	14 54	51	44	16 59	48	31
24	13	25	18 39	44	10 56	52	45	44	49	31
25	17	23	18 17	55	6 23	53	46	29	49	30
26	21	21	17 54	56	1 24	54	47	14	50	30
27	25	18	17 31	57	3 S46	55	48	15 59	51	30
28	18 29	23 15	17 8	24 58	8 53	15 56	22 49	15 44	7 51	18 29
29	33	12	16 44	55	13 38	57	50	28	52	29
30	37	8	16 20	51	17 37	58	51	12	53	29
31	18 41	23 3	15 55	24 47	20 29	15 59	22 51	14 56	7 53	18 28

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	8.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	35	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5692	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3395	16

TABLE OF PROPORTIONAL LOGARITHMS

Min. | Hours or Degrees

	12	13	14	15	16	17	18	19	20	21	22	23
0	8010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	83
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	10	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	0594	91	0197	12
57	79	56	56	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06
59	68	46	46	65	02	53	18	95	83	81	88	03

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

JANUARY, 1890

New Moon January 20th in ♒ 0° 26′

Longitude of the Planets

Day		☉	☿	☿	☽	♄	♅	♂	♃	♆	♇
		♑	♐	♑	♉	♍	♑	♏	♎	♓	♋
		° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
W	1	11 06	29 34	25 08	19 24	3R37	17 57	0 16	26 19	2R12	2 31
Th	2	12 07	0♑50	26 42	1♊33	35	18 11	0 50	21	10	27
F	3	13 08	2 05	28 16	13 32	33	25	1 24	22	09	24
S	4	14 09	3 21	29 49	25 26	30	39	1 57	23	08	21
Su	5	15 10	4 36	1♒21	7♋16	28	53	2 31	25	07	18
M	6	16 11	5 51	2 52	19 04	26	19 07	3 04	26	06	15
T	7	17 12	7 07	4 20	0♌52	3 23	19 21	3 37	26 28	2 05	2 12
W	8	18 14	8 22	5 47	12 43	20	35	4 11	29	04	08
Th	9	19 15	9 38	7 11	24 39	18	49	4 44	30	03	05
F	10	20 16	10 53	8 31	6♍42	15	20 03	5 17	31	02	02
S	11	21 17	12 08	9 48	18 55	12	17	5 50	32	01	1 59
Su	12	22 18	13 24	11 01	1♎22	09	31	6 23	33	00	56
M	13	23 19	14 39	12 09	14 04	06	45	6 55	34	1 58	53
Tu	14	24 20	15 55	13 10	27 06	3 03	20 59	7 28	26 35	1 57	1 49
W	15	25 21	17 10	14 06	10♏31	00	21 13	8 01	36	57	46
Th	16	26 22	18 26	14 53	24 21	2 56	27	8 33	37	56	43
F	17	27 24	19 41	15 33	8♐37	53	41	9 06	38	55	40
S	18	28 25	20 56	16 03	23 17	49	55	9 38	38	55	37
Su	19	29 26	22 12	16 23	8♑16	46	22 09	10 10	39	54	34
M	20	0♒27	23 27	16 32	23 27	42	23	10 42	40	53	30
T	21	1 28	24 43	16R30	8♒41	2 38	22 37	11 14	26 40	1 53	1 27
W	22	2 28	25 58	16 17	23 48	2 35	22 51	11 46	26 41	1 52	1 24
Th	23	3 30	27 13	15 52	8♓38	31	23 05	12 18	41	51	21
F	24	4 32	28 29	15 16	23 03	27	19	12 50	42	51	18
S	25	5 33	29 44	14 30	7♈01	23	33	13 21	42	50	15
Su	26	6 33	0♒59	13 34	20 30	19	47	13 52	42	49	11
M	27	7 34	2 15	12 31	3♉32	15	24 01	14 24	42	49	08
T	28	8 35	3 30	11 22	16 09	2 10	24 15	14 55	26 43	1 48	1 05
W	29	9 36	4 45	10 09	28 27	06	29	15 26	43	48	02
Th	30	10 37	6 01	8 55	10♊31	02	42	15 57	43	48	0 59
F	31	11 38	7 16	7 40	22 24	1 58	24 56	16 27	26 43	48	0 56

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

JANUARY, 1890

Full Moon January 6th in ♋ 16° 11′

Declination of the Planets

Day		S. T.	☉	♀	☿	☽	♄	♃	♂	♅	♆
			S	S	S	N	N	S	S	S	N
		H. M.	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
W	1	18 44	22 59	23 24	23 09	14 03	11 39	22 26	10 14	9 37	18 58
Th	2	48	54	25	22 47	17 46	40	25	26	38	58
F	3	52	48	27	22 25	20 41	41	23	38	38	58
S	4	56	42	29	22 03	22 40	42	21	49	39	57
Su	5	19 00	35	29	21 36	23 38	43	19	11 00	39	57
M	6	04	28	29	21 10	23 32	44	17	11	39	57
T	7	19 08	22 21	23 28	20 44	22 23	11 45	22 15	11 23	9 40	18 57
W	8	12	13	25	20 15	20 14	46	13	34	40	57
Th	9	16	04	22	19 46	17 13	48	11	46	40	57
F	10	20	21 55	19	19 17	13 26	49	09	57	41	56
S	11	24	46	15	18 46	9 05	50	07	12 07	41	56
Su	12	28	36	10	18 16	4 17	52	05	18	41	56
M	13	32	26	05	17 46	0s47	53	03	29	42	56
T	14	19 36	21 16	22 58	17 17	5 58	11 54	22 01	12 39	9 42	18 56
W	15	40	05	51	16 47	11 01	56	21 59	50	42	56
Th	16	44	20 53	44	16 18	15 41	57	57	13 01	43	55
F	17	47	42	32	15 54	19 37	58	55	11	43	55
S	18	51	29	24	15 29	22 24	59	53	21	43	55
Su	19	55	17	17	15 04	23 41	12 01	51	32	44	55
M	20	59	04	05	14 48	23 14	02	48	42	44	55
T	21	20 03	19 51	21 54	14 31	21 04	12 04	21 46	13 52	9 44	18 55
W	22	07	37	43	14 14	17 26	06	44	14 02	44	55
Th	23	11	23	29	14 08	12 45	08	42	12	44	55
F	24	15	09	16	14 02	7 29	10	39	22	44	55
S	25	19	18 54	03	13 56	1 59	11	37	31	45	55
Su	26	23	39	20 48	13 59	3n25	13	35	41	45	55
M	27	27	23	33	14 06	8 29	15	33	51	45	55
T	28	20 31	18 08	20 18	14 12	13 03	12 16	21 31	15 00	9 45	18 54
W	29	35	17 52	01	14 25	16 58	17	28	09	45	54
Th	30	39	35	19 45	14 37	20 06	19	25	18	45	54
F	31	43	18	28	14 51	22 19	21	23	27	45	54

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

FEBRUARY, 1890

New Moon February 19th in ♓ 0° 50′

Longitude of the Planets

Day		☉	☿	☿	☽	♄	♅	♂	♅	Ψ	Ω
		♒ ° ′	♒ ° ′	♒ ° ′	♋ ° ′	♍ ° ′	♑ ° ′	♎ ° ′	♒ ° ′	♊ ° ′	♋ ° ′
S	1	12 38	8 31	6R29	4 12	1R53	25 10	16 58	26R43	1R47	0 53
Su	2	13 39	9 47	5 23	15 59	49	24	17 29	43	47	49
M	3	14 40	11 02	4 21	27 47	44	37	17 59	42	47	46
T	4	15 41	12 17	3 27	9♌40	40	51	18 29	42	46	43
W	5	16 41	13 32	2 40	21 38	35	26 05	18 59	42	46	39
Th	6	17 42	14 48	2 02	3♍44	31	18	19 29	41	46	36
F	7	18 43	16 03	1 31	15 59	1 26	26 32	19 59	26 41	1 46	0 33
S	8	19 44	17 18	1 09	28 24	21	45	20 28	40	46	30
Su	9	20 45	18 33	0 55	11♎00	16	59	20 58	40	46	27
M	10	21 45	19 49	0D49	23 48	12	27 12	21 27	39	45	24
T	11	22 46	21 04	0 50	6♍52	07	26	21 56	39	45	20
W	12	23 47	22 19	0 58	20 12	02	39	22 25	38	45	17
Th	13	24 47	23 34	1 12	3♐51	0 57	52	22 54	37	D46	14
F	14	25 48	24 49	1 33	17 51	0 53	28 06	23 23	26 37	1 46	0 11
S	15	26 48	26 05	1 59	2♑11	48	19	23 51	36	46	08
Su	16	27 49	27 20	2 30	16 50	43	32	24 19	35	46	05
M	17	28 49	28 35	3 06	1♒44	38	45	24 47	34	46	02
T	18	29 50	29 50	3 46	16 45	33	58	25 15	33	46	29♊58
W	19	0♓50	1♓05	4 30	1♓44	28	29 11	25 43	32	47	55
Th	20	1 51	2 20	5 19	16 33	24	24	26 10	31	47	51
F	21	2 51	3 35	6 10	1♈03	0 19	29 37	26 37	26 30	1 47	29 49
S	22	3 52	4 50	7 05	15 08	14	50	27 04	29	48	46
Su	23	4 52	6 05	8 02	28 44	09	0♒03	27 31	27	48	43
M	24	5 52	7 21	9 03	11♉52	04	16	27 58	26	48	39
Tu	25	6 53	8 36	10 06	24 34	29♌59	28	28 24	25	49	36
W	26	7 53	9 51	11 11	6♊54	55	41	28 50	23	50	33
Th	27	8 53	11 06	12 19	18 59	50	54	29 16	21	50	30
F	28	9 53	12 21	13 28	0♋52	29 45	1 06	29 41	26 29	1 51	29 27

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

FEBRUARY, 1890

Full Moon February 5th in ♌ 16° 41′

Declination of the Planets

Day		S. T.	☉	♀	☿	☽	♄	♃	♂	♅	♆
		H. M.	° ′ S	° ′ S	° ′ S	° ′ N	° ′ N	° ′ S	° ′ S	° ′ S	° ′ N
S	1	20 47	17 01	19 10	15 08	23 32	12 22	21 21	15 36	9 45	18 54
Su	2	50	16 44	18 51	25	23 42	24	18	45	45	54
M	3	54	16 27	18 32	42	22 47	26	16	53	45	54
T	4	58	16 09	18 13	16 00	20 51	28	14	16 02	45	54
W	5	21 02	15 51	17 52	17	18 00	30	12	11	45	54
Th	6	06	15 32	17 31	33	14 21	32	09	19	45	54
F	7	21 10	15 13	17 11	16 49	10 04	12 33	21 06	16 27	9 44	18 54
S	8	14	14 54	16 49	17 03	5 20	35	04	35	44	54
Su	9	18	14 35	16 27	17	0 18	37	02	43	44	54
M	10	22	14 16	16 05	31	4s50	38	20 59	51	43	55
T	11	26	13 56	15 41	41	9 51	40	56	59	43	55
W	12	30	13 36	15 18	51	14 32	42	54	17 07	43	55
Th	13	34	13 16	14 55	18 01	18 35	44	51	14	43	55
F	14	21 38	12 56	14 31	18 08	21 41	12 46	20 49	17 22	9 43	18 55
S	15	42	12 35	14 06	14	23 29	48	46	30	43	55
Su	16	46	12 14	13 41	20	23 44	49	44	37	42	55
M	17	50	11 53	13 06	22	22 18	51	42	44	42	55
T	18	54	11 32	12 40	24	19 17	53	39	51	42	55
W	19	58	11 11	12 24	26	14 59	55	36	58	41	55
Th	20	22 01	10 49	12 58	24	9 50	57	34	18 05	41	55
F	21	22 05	10 28	11 31	18 22	4 14	12 59	20 31	18 12	9 40	18 55
S	22	09	10 06	11 04	20	1N25	13 00	28	18	39	56
Su	23	13	9 44	10 37	14	6 50	02	26	24	39	56
M	24	17	9 22	10 09	08	11 46	04	23	30	39	56
T	25	21	8 59	9 41	02	16 01	05	21	37	38	56
W	26	25	8 37	9 12	17 52	19 28	07	19	43	37	56
T	27	29	8 15	8 44	42	21 59	09	16	49	37	56
F	28	22 33	7 52	8 16	17 32	23 29	13 11	20 13	18 56	9 36	18 57

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

MARCH, 1890

New Moon March 20th in ♓ 29° 50′

Longitude of the Planets

Day		☉ ♓	☿ ♓	☿ ♒	☽ ♋	♄ ♌	♅ ♒	♂ ♐	♆ ♑	Ψ ♊	Ω ♊
		° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
S	1	10 54	13 36	14 40	12 39	29R40	1 19	0 07	26R19	1 52	29 24
Su	2	11 54	14 50	15 54	24 26	36	31	0 32	17	53	20
M	3	12 54	16 05	17 09	6♌17	31	43	0 57	16	53	17
T	4	13 54	17 20	18 26	18 14	26	55	1 21	14	54	14
W	5	14 54	18 35	19 45	0♍22	22	2 08	1 46	13	55	11
Th	6	15 54	19 50	21 05	12 40	17	20	2 10	11	55	08
F	7	16 54	21 05	22 26	25 11	29 13	2 32	2 33	26 09	1 56	29 05
S	8	17 52	22 20	23 49	7♎53	08	44	2 57	07	57	01
Su	9	18 54	23 35	25 14	20 47	03	55	3 20	05	58	28 58
M	10	19 54	24 49	26 40	3♏52	28 59	3 07	3 43	04	59	55
T	11	20 54	26 04	28 07	17 09	55	19	4 06	02	2 00	51
W	12	21 53	27 19	29 36	0♐37	51	30	4 28	00	01	48
Th	13	22 53	28 34	1♓06	14 17	47	42	4 50	25 58	02	45
F	14	23 53	29 49	2 37	28 10	28 42	3 53	5 11	25 56	2 03	28 42
S	15	24 53	1♈03	4 10	12♑16	38	4 05	5 33	54	04	39
Su	16	25 52	2 18	5 45	26 36	34	16	5 54	52	05	36
M	17	26 52	3 32	7 19	11♒06	30	27	6 14	49	06	33
T	18	27 52	4 47	8 55	25 42	26	38	6 34	47	08	29
W	19	28 51	6 02	10 33	10♓19	23	49	6 54	45	09	26
T	20	29 51	7 17	12 12	24 49	19	5 00	7 13	43	10	23
F	21	9♈50	8 32	13 52	9♈06	28 15	5 11	7 32	25 41	2 11	28 20
S	22	1 50	9 46	15 33	23 03	11	22	7 51	38	12	17
Su	23	2 49	11 00	17 16	6♉36	07	32	8 09	36	13	13
M	24	3 49	12 15	19 00	19 44	04	43	8 27	34	15	10
T	25	4 48	13 29	20 46	2♊28	01	53	8 44	32	16	07
W	26	5 47	14 43	22 32	14 52	27 58	6 03	9 01	29	17	04
Th	27	6 47	15 58	24 20	26 58	54	13	9 18	27	19	01
F	28	7 46	17 12	26 10	8♋53	27 51	6 24	9 34	25 24	2 21	27 58
S	29	8 46	18 27	28 00	20 42	48	34	9 49	22	22	55
Su	30	9 45	19 41	29 52	2♌31	45	43	10 04	20	24	51
M	31	10 44	20 55	1♈46	14 25	27 42	6 53	10 19	25 17	2 25	27 48

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

MARCH, 1890

Full Moon March 6th in ♍ 15° 53′

Declination of the Planets

Day		S. T.	☉	♀	☿	☽	♄	♅	♂	♃	♆
		H. M.	° ′ S	° ′ S	° ′ S	° ′ N	° ′ N	° ′ S	° ′ S	° ′ S	° ′ N
S	1	22 37	7 29	7 47	17 19	23 55	13 12	20 10	19 02	9 36	18 57
Su	2	41	7 06	7 18	17 04	23 16	14	08	08	36	57
M	3	45	6 43	6 48	16 48	21 35	16	05	14	35	57
T	4	49	6 20	6 19	16 32	18 56	17	02	19	34	58
W	5	53	5 57	5 50	16 12	15 26	19	19 59	25	33	58
Th	6	57	5 34	5 20	15 53	11 14	21	57	30	33	58
F	7	23 01	5 11	4 50	15 33	6 30	13 22	19 55	19 35	9 32	18 58
S	8	05	4 47	4 20	15 09	1 26	24	52	40	31	58
Su	9	09	4 24	3 50	14 46	3S48	26	50	45	30	58
M	10	12	4 00	3 20	14 23	8 56	27	47	51	30	59
T	11	16	3 37	2 49	13 55	13 44	29	44	55	29	59
W	12	20	3 13	2 19	13 28	17 57	30	41	20 00	28	59
Th	13	24	2 50	1 49	13 01	21 16	31	39	05	28	19 00
F	14	23 28	2 26	1 18	12 30	23 23	13 32	19 36	20 10	9 27	19 00
S	15	32	2 02	0 47	11 59	24 03	34	33	15	27	00
Su	16	36	1 39	0 17	11 28	23 09	36	31	19	26	00
M	17	40	1 15	0 07	10 54	20 43	37	29	24	25	00
T	18	44	0 51	0N04	10 19	16 55	39	27	28	24	00
W	19	48	0 27	1 15	9 44	12 06	40	24	32	23	01
Th	20	52	0 04	1 46	9 06	6 39	41	21	36	22	01
F	21	23 56	0N20	2 16	8 27	0 55	13 42	19 19	20 40	9 22	19 01
S	22	60	0 44	2 47	7 48	4N45	43	16	45	21	02
Su	23	0 04	1 07	3 18	7 06	10 02	44	13	49	20	02
M	24	08	1 31	3 48	6 24	14 42	46	11	52	19	02
T	25	12	1 55	4 18	5 42	18 34	47	09	56	18	03
W	26	16	2 18	4 48	4 48	21 30	48	06	21 00	18	03
Th	27	19	2 42	5 18	3 55	23 22	49	04	03	17	03
F	28	0 23	3 05	5 48	3 26	24 09	13 50	19 02	21 07	9 16	19 04
S	29	27	3 28	6 18	2 37	23 50	51	18 59	10	15	04
Su	30	31	3 52	6 48	1 49	22 26	52	57	14	14	04
M	31	0 35	4 15	7 18	1 01	20 03	13 53	18 55	21 18	9 13	19 05

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

APRIL, 1890

New Moon April 19th in ♈ 29° 21′

Longitude of the Planets

Day		☉ ♈ ° ′	☿ ♈ ° ′	♀ ♈ ° ′	☽ ♌ ° ′	♄ ♌ ° ′	♅ ♒ ° ′	♆ ♐ ° ′	♇ ♓ ° ′	Ψ ♊ ° ′	Ω ♊ ° ′
T	1	11 43	22 10	3 41	26 27	27R40	7 03	10 33	25R14	2 26	27 45
W	2	12 42	23 24	5 37	8♍42	37	12	46	12	28	41
Th	3	13 41	24 38	7 35	21 11	34	21	59	10	29	38
F	4	14 40	25 53	9 34	3♎57	32	31	11 12	07	31	35
S	5	15 39	27 07	11 34	16 58	29	40	24	05	33	32
Su	6	16 38	28 21	13 35	0♏14	27	49	35	02	35	29
M	7	17 37	29 35	15 38	13 43	27 25	7 58	11 46	25 00	2 36	27 26
T	8	18 36	0♉49	17 41	27 21	22	8 07	57	24 57	38	23
W	9	19 35	2 03	19 46	11♐09	20	15	12 06	55	40	19
Th	10	20 34	3 18	21 51	25 03	18	24	15	52	41	16
F	11	21 33	4 32	23 57	9♑03	17	32	24	49	43	13
S	12	22 31	5 46	26 03	23 08	15	40	32	47	45	10
Su	13	23 30	7 00	28 10	7♒18	13	48	39	44	47	07
M	14	24 29	8 14	0♉16	21 30	27 12	8 56	12 46	24 42	2 49	27 03
T	15	25 28	9 28	2 22	5♓43	10	9 04	52	39	51	00
W	16	26 26	10 42	4 28	19 53	09	12	57	37	52	26 57
Th	17	27 25	11 56	6 33	3♈56	08	20	13 01	34	54	54
F	18	28 23	13 10	8 36	17 48	06	27	05	31	56	51
S	19	29 22	14 23	10 38	1♉24	05	34	08	29	58	48
Su	20	0♉21	15 37	12 38	14 43	04	41	11	26	3 00	44
M	21	1 19	16 51	14 35	27 41	27 04	9 48	13 13	24 24	3 02	26 41
T	22	2 18	18 05	16 30	10♊20	03	55	14	21	04	38
W	23	3 16	19 19	18 22	22 41	02	10 02	14	19	06	35
Th	24	4 14	20 32	20 11	4♋47	02	08	R14	16	08	32
F	25	5 13	21 46	21 57	16 43	01	15	12	14	10	29
S	26	6 11	23 00	23 40	28 34	01	21	10	11	12	25
Su	27	7 09	24 13	25 18	10♌24	01	27	08	09	14	22
M	28	8 08	25 27	26 53	22 19	27 01	10 33	13 04	24 6	3 16	26 19
T	29	9 06	26 41	28 24	4♍23	01	39	00	04	18	16
W	30	10 04	27 54	29 51	16 42	01	44	12 57	01	20	13

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SIMPLIFIED SCIENTIFIC
EPHEMERIS OF THE PLANETS' PLACES
Calculated for Mean Noon at Greenwich
APRIL, 1890
Full Moon April 5th in ♎ 15° 39′
Declination of the Planets

Day		S. T.	☉	♀	☿	☽	♄	♅	♂	♃	♆
		H. M.	° ′ N	° ′ N	° ′ S	° ′ N	° ′ N	° ′ S	° ′ S	° ′ S	° ′ N
T	1	0 39	4 38	7 47	0 10	16 46	13 54	18 53	21 21	9 12	19 05
W	2	43	5 01	8 16	0 N22	12 44	55	51	24	11	06
Th	3	47	5 24	8 45	1 14	8 05	56	48	28	10	06
F	4	51	5 47	9 14	2 26	3 00	57	46	31	09	07
S	5	55	6 10	9 43	3 20	2S19	58	44	34	09	07
Su	6	59	6 33	10 12	4 14	7 38	58	42	37	08	07
M	7	1 03	6 55	10 40	5 09	12 42	13 59	18 40	21 40	9 07	19 08
T	8	07	7 18	11 08	6 05	17 12	59	37	43	06	08
W	9	11	7 40	11 36	7 01	20 50	14 00	35	46	05	08
Th	10	15	8 02	12 03	7 56	23 17	01	33	49	04	09
F	11	19	8 24	12 29	8 52	24 18	01	32	52	03	09
S	12	23	8 46	12 56	9 48	23 46	02	30	55	02	09
Su	13	27	9 08	13 23	10 43	21 42	02	28	58	01	10
M	14	1 30	9 30	13 49	11 38	18 19	14 03	18 26	22 01	9 00	19 10
T	15	34	9 51	14 15	12 33	13 51	03	24	04	8 59	10
W	16	38	10 12	14 41	13 25	8 39	04	22	06	58	11
Th	17	42	10 34	15 06	14 16	3 03	04	20	09	57	11
F	18	46	10 55	15 31	15 07	2N39	04	18	12	56	11
S	19	50	11 15	15 55	15 57	8 07	05	16	14	55	12
Su	20	54	11 36	16 19	16 42	13 06	05	15	17	55	13
M	21	1 58	11 56	16 43	17 27	17 22	14 05	18 13	22 19	8 54	19 13
T	22	2 02	12 17	17 06	18 12	20 43	05	11	21	53	14
W	23	06	12 37	17 28	18 51	23 03	05	10	23	52	14
Th	24	10	12 56	17 50	19 30	24 15	05	08	25	51	14
F	25	14	13 16	18 12	20 08	24 18	05	07	28	50	15
S	26	18	13 35	18 33	20 39	23 15	05	06	30	49	15
Su	27	22	13 55	18 54	21 10	21 11	05	04	32	48	15
M	28	2 26	14 14	19 15	21 41	18 11	14 05	18 02	22 35	8 47	19 16
T	29	30	14 32	19 34	22 05	14 24	05	00	37	46	16
W	30	34	14 51	19 53	22 29	9 57	05	17 59	39	45	16

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

MAY, 1890

New Moon May 18th in ♉ 27° 27′

Longitude of the Planets

Day		☉ ♉	☿ ♉	☿ ♊	☽ ♍	♄ ♌	♅ ♒	♆ ♐	♇ ♑	⚳ ♓	⚷ ♊
		° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
Th	1	11 02	29 08	1 14	29 18	27 01	10 50	12R49	23R59	3 22	26 10
F	2	12 00	0♊21	2 32	12♎14	02	55	43	56	24	06
S	3	12 59	1 35	3 46	25 29	02	11 00	36	54	26	03
Su	4	13 57	2 48	4 56	9♍04	03	05	28	52	29	00
M	5	14 55	4 02	6 01	22 55	03	10	19	49	31	25 57
T	6	15 53	5 15	7 02	7♐00	04	14	10	47	33	54
W	7	16 51	6 28	7 58	21 13	27 05	11 19	12 00	23 45	3 35	25 51
Th	8	17 49	7 42	8 49	5♑31	06	23	11 49	42	37	47
F	9	18 47	8 55	9 35	19 50	07	27	37	40	39	44
S	10	19 45	10 08	10 17	4♒07	08	31	25	38	42	41
Su	11	20 42	11 21	10 54	18 19	10	35	12	36	44	38
M	12	21 40	12 34	11 26	2♓25	11	38	10 58	34	46	34
T	13	22 38	13 48	11 53	16 23	12	41	44	31	48	31
W	14	23 36	15 01	12 15	0♈12	27 14	11 44	10 29	23 29	3 50	25 28
Th	15	24 34	16 14	12 32	13 49	16	47	13	27	53	25
F	16	25 32	17 28	12 45	27 15	18	50	9 57	25	55	22
S	17	26 30	18 41	12 52	10♉26	20	53	40	23	57	18
Su	18	27 27	19 54	12R55	23 22	22	55	23	21	59	15
M	19	28 25	21 07	12 52	6♊04	24	58	05	19	4 02	12
T	20	29 23	22 20	12 46	18 30	27	12 00	8 47	17	04	09
W	21	0♊20	23 33	12 35	0♋44	27 29	12 02	8 28	23 15	4 06	25 06
Th	22	1 18	24 46	12 19	12 47	31	03	09	14	08	03
F	23	2 16	25 59	12 00	24 41	33	05	7 49	12	10	24 59
S	24	3 13	27 11	11 38	6♌31	36	06	29	10	12	56
Su	25	4 11	28 24	11 12	18 22	38	07	10	08	15	53
M	26	5 09	29 37	10 43	0♍17	41	08	6 50	07	17	50
T	27	6 06	0♋50	10 13	12 21	44	09	29	05	19	47
W	28	7 04	2 03	9 41	24 40	27 47	12 10	6 09	23 03	4 22	24 44
Th	29	8 01	3 15	9 08	7♎16	50	10	5 48	02	24	41
F	30	8 58	4 28	8 34	20 14	53	10	28	00	26	37
S	31	9 56	5 41	8 00	3♍36	56	10	07	22 59	29	34

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

MAY, 1890

Full Moon May 4th in ♏ 13° 56′

Declination of the Planets

Day		S. T.	☉	♀	☿	☽	♄	♃	♂	♅	♆
			N	N	N	N	N	S	S	S	N
		H. M.	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
Th	1	2 37	15 09	20 13	22 52	4 59	14 05	17 58	22 41	8 44	19 17
F	2	41	15 27	31	23 08	0s19	05	57	42	43	18
S	3	45	15 45	49	24	5 44	05	56	44	42	18
Su	4	49	16 02	21 06	41	11 02	04	55	46	42	19
M	5	53	16 19	22	50	15 54	04	54	48	41	19
T	6	57	16 36	38	59	19 58	04	52	50	40	19
W	7	3 01	16 53	21 54	24 09	22 53	14 03	17 51	22 52	8 39	19 20
Th	8	05	17 09	22 08	12	24 21	03	50	54	38	20
F	9	09	17 25	22	16	24 13	03	49	55	38	20
S	10	13	17 41	36	19	22 29	02	49	56	37	21
Su	11	17	17 56	48	16	19 21	01	48	58	37	21
M	12	21	18 12	23 01	13	15 08	01	47	59	36	21
T	13	25	18 26	13	11	10 08	00	46	23 00	35	22
W	14	3 29	18 41	23 24	24 03	4 40	13 59	17 45	23 01	8 34	19 22
Th	15	33	18 55	34	23 55	0N56	58	45	02	33	23
F	16	37	19 09	44	47	6 25	58	44	03	32	24
S	17	41	19 23	52	35	11 32	57	44	04	31	24
Su	18	45	19 36	24 00	22	16 03	56	44	04	31	24
M	19	48	19 49	08	08	19 45	55	43	05	30	25
T	20	52	20 02	15	22 51	22 28	54	43	05	29	25
W	21	3 56	20 14	24 21	22 34	24 05	13 54	17 43	23 05	8 29	19 25
Th	22	4 00	20 26	27	17	24 32	53	42	06	28	26
F	23	04	20 38	31	21 57	23 51	52	42	06	27	26
S	24	08	20 49	35	37	22 06	51	42	06	27	26
Su	25	12	21 00	39	17	19 24	50	42	06	26	27
M	26	16	21 10	40	20 56	15 53	49	42	06	26	28
T	27	20	21 20	42	34	11 42	47	42	06	26	28
W	28	4 24	21 30	24 44	20 13	6 57	13 46	17 42	23 05	8 25	19 29
Th	29	28	21 40	44	19 51	1 49	45	42	05	24	29
F	30	32	21 49	44	30	3s32	44	42	04	23	29
S	31	36	21 57	44	09	8 54	43	42	03	23	30

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EPHEMERIS OF THE PLANETS' PLACES
Calculated for Mean Noon at Greenwich
JUNE, 1890
Eclipse of Sun June 17th in ♊ 26° 11'
Longitude of the Planets

Day	☉	☿	☿	☽	♄	♅	♂	♇	♆	☊
	♊ ° ′	♋ ° ′	♊ ° ′	♍ ° ′	♌ ° ′	♒ ° ′	♐ ° ′	♑ ° ′	♊ ° ′	♊ ° ′
Su 1	10 54	6 54	7R27	17 21	28 00	12R10	4R46	22R57	4 31	24 31
M 2	11 51	8 06	6 56	1♐28	03	09	26	56	34	28
T 3	12 49	9 18	6 26	15 53	07	08	06	54	36	24
W 4	13 46	10 31	5 58	0♑31	11	08	3 46	53	38	21
Th 5	14 43	11 43	5 33	15 15	14	07	26	52	40	18
F 6	15 41	12 56	5 12	29 59	18	06	06	51	42	15
S 7	16 38	14 08	4 53	14♒36	28 22	12 05	2 47	22 49	4 44	24 12
Su 8	17 35	15 20	4 39	29 02	26	03	28	48	46	08
M 9	18 33	16 33	4 29	13♓13	30	01	09	47	48	05
T 10	19 30	17 45	4 22	27 07	34	11 59	1 51	46	51	02
W 11	20 27	18 57	4D21	10♈44	38	57	33	45	53	23 59
Th 12	21 25	20 09	4 23	24 04	43	55	16	44	56	56
F 13	22 22	21 22	4 31	7♉08	47	53	00	43	58	53
S 14	23 19	22 34	4 42	19 57	28 51	11 50	0 44	22 42	5 00	23 49
Su 15	24 17	23 46	4 59	2♊32	56	47	28	42	02	46
M 16	25 14	24 58	5 20	14 56	29 01	44	13	41	5 04	43
T 17	26 11	26 10	5 45	27 08	05	41	29♏59	40	06	40
W 18	27 08	27 22	6 15	9♋12	10	37	46	39	08	37
Th 19	28 06	28 34	6 50	21 09	15	34	33	39	10	34
F 20	29 03	29 46	7 29	3♌00	20	30	21	38	12	31
S 21	0♋00	0♌58	8 12	14 50	29 25	11 26	29 10	22 38	5 15	23 27
Su 22	0 57	2 09	8 59	26 40	30	22	00	37	17	24
M 23	1 55	3 21	9 50	8♍35	35	18	28 50	37	19	21
T 24	2 51	4 33	10 46	20 39	40	14	41	37	21	18
W 25	3 49	5 45	11 46	2♎55	45	09	33	36	23	15
Th 26	4 46	6 56	12 49	15 29	51	04	26	36	25	11
F 27	5 44	8 08	13 57	28 23	56	10 59	20	36	27	08
S 28	6 41	9 19	15 09	11♏42	0♒02	10 54	28 14	22 36	5 29	23 05
Su 29	7 38	10 31	16 24	25 27	07	49	10	36	31	02
M 30	8 35	11 42	17 43	9♐38	13	44	06	♑ 36	33	22 59

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EPHEMERIS OF THE PLANETS' PLACES
Calculated for Mean Noon at Greenwich
June, 1890
Full Moon June 3rd in ♐ 12° 48′
Declination of the Planets

Day		S. T.	☉	♀	☿	☽	♄	♅	♂	♃	♆
		H. M.	° ′ N	° ′ N	° ′ N	° ′ S	° ′ N	° ′ S	° ′ S	° ′ S	° ′ N
Su	1	4 40	22 05	24 42	18 49	14 00	13 42	17 42	23 02	8 22	19 30
M	2	44	13	39	31	18 29	41	43	01	22	31
T	3	48	21	36	13	21 58	39	43	01	22	31
W	4	52	28	32	17 56	24 04	38	44	00	21	32
Th	5	55	35	26	43	24 30	37	44	22 59	21	32
F	6	59	41	21	30	23 13	35	44	58	21	32
S	7	5 03	22 47	24 16	17 18	20 23	13 33	17 45	22 57	8 20	19 33
Su	8	07	52	08	10	16 19	32	46	56	20	33
M	9	11	58	01	03	11 24	30	46	55	20	33
T	10	15	23 02	23 54	16 56	6 00	29	47	54	19	34
W	11	19	07	45	55	0 25	28	48	52	19	34
Th	12	23	11	35	54	5N05	26	48	51	19	34
F	13	27	14	26	53	10 15	24	50	50	18	35
S	14	5 31	23 17	23 14	16 58	14 53	13 23	17 51	22 49	8 18	19 35
Su	15	35	20	03	17 02	18 47	21	52	48	18	35
M	16	38	22	22 52	06	21 47	19	53	47	17	36
T	17	43	24	38	16	23 43	18	54	46	17	36
W	18	47	25	25	26	24 32	16	55	45	17	36
Th	19	51	26	12	35	24 11	14	56	44	16	37
F	20	55	27	21 57	49	22 45	13	57	43	16	37
S	21	5 59	23 27	21 42	18 03	20 19	13 11	17 59	22 43	8 16	19 37
Su	22	6 02	27	26	17	17 03	09	18 00	42	16	38
M	23	06	26	10	34	13 05	07	01	42	16	38
T	24	10	25	20 53	51	8 33	05	03	42	16	38
W	25	14	24	36	19 08	3 37	03	04	41	15	39
Th	26	18	22	17	27	1s34	01	05	41	15	39
F	27	22	20	19 57	46	6 50	12 59	07	41	15	39
S	28	6 26	23 17	19 40	20 04	11 59	12 57	18 09	22 40	8 15	19 40
Su	29	30	14	20	23	16 42	55	11	40	15	40
M	30	34	11	00	42	20 37	53	13	40	15	40

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

JULY, 1890

New Moon July 17th in ♋ 24° 47′

Longitude of the Planets

Day		☉	☿	♀	☽	♄	♅	♂	♆	♇	♃
		♋ ° ′	♌ ° ′	♊ ° ′	♐ ° ′	♑ ° ′	♒ ° ′	♑ ° ′	♓ ° ′	♊ ° ′	♊ ° ′
T	1	9 32	12 53	19 06	24 13	0 18	10R38	28R03	22 36	5 34	22 56
W	2	10 30	14 05	20 33	9♍06	24	33	28 01	36	36	52
Th	3	11 27	15 16	22 03	24 10	30	27	27 59	36	38	49
F	4	12 24	16 27	23 37	9♒16	36	21	27 59	36	40	46
S	5	13 21	17 38	25 14	24 15	42	15	27D59	36	42	43
Su	6	14 18	18 49	26 55	8♓59	48	09	28 01	37	44	40
M	7	15 15	20 00	28 39	23 23	0 50	10 03	28 03	22 37	5 46	22 37
T	8	16 13	21 11	0♋26	7♈22	1 00	9 56	05	37	48	34
W	9	17 10	22 22	2 17	20 58	06	50	09	38	50	30
Th	10	18 07	23 33	4 10	4♉10	12	43	14	38	51	27
F	11	19 04	24 44	6 06	17 02	18	36	19	39	52	24
S	12	20 01	25 54	8 05	29 36	25	29	25	39	54	21
Su	13	20 59	27 05	10 06	11♊56	31	22	31	40	56	18
M	14	21 56	28 15	12 08	24 05	1 37	9 15	28 39	22 41	5 58	22 14
T	15	22 53	29 26	14 13	6♋06	44	08	47	42	6 00	11
W	16	23 51	0♍36	16 18	18 01	50	01	56	42	01	08
Th	17	24 47	1 47	18 25	29 52	57	8 54	29 06	43	03	05
F	18	25 45	2 57	20 32	11♌42	2 03	46	17	44	05	03
S	19	26 42	4 07	22 40	23 32	10	39	28	45	06	21 59
Su	20	27 40	5 18	24 48	5♍24	17	32	40	46	07	55
M	21	28 37	6 28	26 56	17 22	2 23	8 24	29 53	22 47	6 09	21 52
T	22	29 34	7 38	29 03	29 27	30	16	0♐06	48	10	49
W	23	0♌32	8 48	1♌10	11♎43	37	09	20	49	12	46
Th	24	1 29	9 58	3 16	24 14	44	01	35	51	13	43
F	25	2 26	11 07	5 21	7♍04	51	7 53	50	52	15	40
S	26	3 24	12 17	7 25	20 16	58	46	1 06	53	16	36
Su	27	4 21	13 27	9 27	3♐54	3 05	38	23	55	18	33
M	28	5 18	14 36	11 28	17 59	3 12	7 30	1 40	22 56	6 19	21 30
T	29	6 16	15 46	13 28	2♑30	19	22	58	58	20	28
W	30	7 13	16 56	15 27	17 24	26	15	2 16	59	21	24
Th	31	8 10	18 04	17 24	2♒34	33	07	35	23 01	23	21

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

JULY, 1890

Full Moon July 2nd in ♑ 10° 29′

Full Moon July 31st in ♒ 8° 10′

Declination of the Planets

Day		S. T.	☉	☿	☿	☽	♄	♃	♂	♅	♆
		H. M.	N	N	N	S	N	S	S	S	N
			° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
T	1	6 38	23 07	18 40	21 01	23 21	12 51	18 14	22 41	8 15	19 41
W	2	42	02	19	21 20	24 31	48	16	42	15	41
Th	3	46	22 58	17 57	21 38	23 55	46	18	42	15	41
F	4	50	53	35	21 56	21 34	44	19	43	16	42
S	5	54	47	13	22 12	17 45	42	21	44	16	42
Su	6	58	41	16 50	22 18	12 55	40	23	46	16	42
M	7	7 02	22 35	16 27	22 43	7 27	12 38	18 25	22 47	8 16	19 43
T	8	06	28	03	22 54	1 46	35	27	48	16	43
W	9	10	21	15 39	23 05	3N51	33	29	50	16	43
Th	10	13	14	15	23 16	9 09	31	31	51	17	44
F	11	17	06	14 50	23 21	13 55	29	33	52	17	44
S	12	21	21 58	25	23 26	17 58	26	35	55	17	44
Su	13	25	49	13 59	23 31	21 10	24	37	57	17	45
M	14	7 29	21 40	13 33	23 28	23 21	12 22	18 39	22 59	8 17	19 45
T	15	33	31	07	23 25	24 26	19	41	23 01	17	45
W	16	37	21	12 40	23 23	24 22	17	43	03	18	46
Th	17	41	11	13	23 13	23 12	15	45	05	19	46
F	18	45	00	11 46	23 02	21 00	12	47	08	19	46
S	19	49	20 50	19	22 51	17 56	10	49	11	20	46
Su	20	53	39	10 51	22 33	14 07	08	51	14	20	46
M	21	7 57	20 27	23	22 14	9 44	12 06	18 53	23 17	8 20	19 46
T	22	8 01	15	9 55	21 55	4 57	03	56	20	21	47
W	23	05	03	27	21 30	0S07	00	59	23	21	47
Th	24	09	19 51	8 58	21 04	5 16	11 58	19 00	26	21	47
F	25	13	38	29	20 38	10 21	55	02	29	22	48
S	26	17	25	00	20 07	15 06	53	05	32	22	48
Su	27	20	11	7 31	19 36	19 15	51	07	36	23	48
M	28	8 24	18 57	7 02	19 04	22 26	11 48	19 09	23 39	8 24	19 48
T	29	28	43	6 33	18 29	24 16	45	11	42	25	48
W	30	32	29	03	17 53	24 26	42	13	46	25	48
Th	31	36	14	5 33	17 17	22 47	40	15	50	26	48

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

AUGUST, 1890

New Moon August 15th in ♌ 22° 33′

Longitude of the Planets

Day		☉ ♌ ° ′	☿ ♍ ° ′	☿ ♌ ° ′	☽ ♒ ° ′	♄ ♍ ° ′	♅ ♒ ° ′	♂ ♐ ° ′	♆ ♑ ° ′	♇ ♊ ° ′	⚳ ♊ ° ′
F	1	9 08	19 13	19 19	17 51	3 40	6R59	2 55	23 02	6 24	21 18
S	2	10 05	20 22	21 12	3♓04	47	51	3 15	04	25	14
Su	3	11 03	21 32	23 04	18 04	54	43	36	06	27	11
M	4	12 00	22 41	24 55	2♈40	4 01	36	57	07	28	08
T	5	12 58	23 49	26 44	16 50	09	28	4 19	09	29	05
W	6	13 55	24 58	28 31	0♉30	16	20	41	11	30	02
Th	7	14 53	26 07	0♍17	13 43	4 23	6 13	5 03	23 13	6 31	20 59
F	8	15 50	27 15	2 01	26 32	31	05	26	15	32	55
S	9	16 48	28 23	3 44	8♊59	38	5 58	50	17	33	52
Su	10	17 45	29 32	5 25	21 12	45	50	6 14	19	34	49
M	11	18 43	0♎40	7 04	3♋12	53	43	39	21	35	46
T	12	19 40	1 48	8 42	15 06	5 00	35	7 04	23	36	43
W	13	20 38	2 56	10 19	26 56	07	28	30	25	37	40
Th	14	21 36	4 04	11 54	8♌45	5 15	5 21	7 56	23 27	6 38	20 36
F	15	22 33	5 11	13 28	20 36	22	14	8 22	30	39	33
S	16	23 31	6 19	15 00	2♍29	30	07	49	32	40	30
Su	17	24 29	7 26	16 31	14 27	37	00	9 16	34	41	26
M	18	25 27	8 34	18 00	26 31	45	4 53	44	37	41	23
T	19	26 24	9 41	19 27	8♎43	52	46	10 12	39	42	20
W	20	27 22	10 48	20 52	21 04	6 00	39	40	41	43	17
Th	21	28 20	11 55	22 17	3♏38	6 07	4 33	11 09	23 44	6 43	20 14
F	22	29 18	13 02	23 41	16 27	15	27	38	47	44	11
S	23	0♍16	14 08	25 02	29 35	22	20	12 08	49	44	07
Su	24	1 14	15 15	26 21	13♐05	30	14	38	52	44	04
M	25	2 12	16 21	27 39	26 58	38	08	13 08	54	45	01
T	26	3 10	17 27	28 56	11♑17	45	02	39	57	46	19 58
W	27	4 07	18 33	0♎10	25 59	53	3 56	14 10	24 00	46	55
Th	28	5 05	19 39	1 22	11♒01	7 00	3 50	14 41	24 03	6 47	19 52
F	29	6 03	20 45	2 33	26 13	08	45	15 13	05	47	48
S	30	7 01	21 50	3 41	11♓25	15	39	45	08	47	45
Su	31	8 00	22 55	4 48	26 28	23	34	16 17	11	48	42

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

AUGUST, 1890

Full Moon August 30th in ♓ 7° 1′

Declination of the Planets

Day		S. T.	☉	♀	☿	☽	♄	♃	♂	♅	♆
		H. M.	° ′ N	° ′ N	° ′ N	° ′ S	° ′ N	° ′ S	° ′ S	° ′ S	° ′ N
F	1	8 40	17 59	5 03	16 39	19 29	11 38	19 17	23 54	8 26	19 49
S	2	44	44	4 32	15 52	14 53	36	19	58	27	49
Su	3	48	28	4 02	15 16	9 26	33	21	24 02	27	49
M	4	52	12	3 32	14 40	3 34	30	23	05	28	49
T	5	56	16 56	3 01	14 07	2N17	28	25	09	29	49
W	6	9 00	40	2 03	13 16	7 51	25	27	13	29	49
Th	7	9 04	16 23	2 01	12 35	12 53	11 22	19 29	24 17	8 30	19 49
F	8	08	06	1 31	11 53	17 12	19	31	21	31	49
S	9	12	15 49	1 00	11 10	20 37	17	33	25	32	49
Su	10	16	31	0 29	10 27	23 02	14	35	29	33	50
M	11	20	14	0s01	9 44	24 22	12	37	33	34	50
T	12	24	14 56	0 32	9 01	24 33	09	39	37	34	50
W	13	28	37	1 03	8 18	23 37	06	41	40	35	50
Th	14	9 32	14 19	1 34	7 36	21 38	11 03	19 43	24 44	8 36	19 50
F	15	36	14 00	2 05	6 53	18 43	00	45	48	37	50
S	16	40	13 41	2 35	6 10	15 02	10 58	46	52	38	51
Su	17	43	22	3 06	5 27	10 44	55	48	56	39	51
M	18	47	03	3 36	4 45	6 00	52	50	59	40	51
T	19	51	12 43	4 07	4 03	0 59	49	52	25 03	40	51
W	20	55	24	4 37	3 21	4s09	47	53	07	41	51
Th	21	9 59	12 04	5 08	2 40	9 13	10 44	19 55	25 11	8 42	19 51
F	22	10 03	11 43	5 38	1 59	14 00	41	56	14	43	51
S	23	07	23	6 08	1 19	18 15	39	57	18	44	51
Su	24	11	03	6 38	0 39	21 41	36	59	21	45	51
M	25	15	10 42	7 08	0 s 01	23 56	33	20 01	24	46	51
T	26	19	21	7 38	0 39	24 43	30	02	27	47	51
W	27	23	00	8 07	1 17	23 48	27	04	30	48	51
Th	28	10 27	9 39	8 37	1 55	21 11	10 24	20 05	25 33	8 49	19 51
F	29	31	18	9 06	2 31	17 05	21	06	36	50	51
S	30	35	8 56	9 35	3 07	11 52	19	08	39	51	51
Su	31	38	35	10 04	3 42	5 59	16	09	42	53	51

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EPHEMERIS OF THE PLANETS' PLACES
Calculated for Mean Noon at Greenwich
SEPTEMBER, 1890
New Moon September 14th in ♍ 21° 35′
Longitude of the Planets

Day		☉ ♍ ° ′	☿ ♎ ° ′	♀ ♎ ° ′	☽ ♈ ° ′	♄ ♍ ° ′	♅ ♒ ° ′	♂ ♐ ° ′	♆ ♎ ° ′	♇ ♊ ° ′	☊ ♊ ° ′
M	1	8 58	24 00	5 52	11 11	7 31	3R29	16 49	24 14	6 48	19 39
T	2	9 56	25 05	6 54	25 28	38	24	17 22	17	48	35
W	3	10 54	26 10	7 53	9 ♉ 15	46	20	17 55	20	48	32
Th	4	11 52	27 14	8 50	22 32	53	15	18 29	23	49	29
F	5	12 50	28 19	9 44	5 ♊ 23	8 01	11	19 02	26	49	26
S	6	13 48	29 23	10 35	17 51	08	06	19 36	29	49	23
Su	7	14 47	0♏27	11 22	0♋02	8 16	3 02	20 11	24 32	6 49	19 20
M	8	15 45	1 30	12 06	12 01	24	2 58	20 45	35	49	16
T	9	16 43	2 34	12 47	23 52	31	55	21 20	38	49	13
W	10	17 42	3 37	13 24	5 ♌ 41	39	51	21 55	41	49	10
Th	11	18 40	4 40	13 56	17 31	46	48	22 30	45	49	07
F	12	19 39	5 42	14 24	29 24	54	45	23 05	48	49	04
S	13	20 37	6 45	14 47	11♍24	9 01	42	23 41	51	R49	01
Su	14	21 36	7 47	15 04	23 31	9 09	2 39	24 17	24 54	6 49	19 57
M	15	22 34	8 49	15 17	5♎47	16	36	24 53	58	49	54
T	16	23 32	9 50	15 23	18 11	24	34	25 30	25 01	48	18 51
W	17	24 31	10 52	15R23	0♏45	31	31	26 06	04	48	48
Th	18	25 30	11 53	15 16	13 30	38	29	26 43	08	48	45
F	19	26 29	12 53	15 03	26 27	46	28	27 20	11	47	42
S	20	27 27	13 54	14 42	9 ♐ 38	53	26	27 58	15	47	38
Su	21	28 26	14 54	14 14	23 06	10 00	2 24	28 35	25 18	6 47	18 35
M	22	29 25	15 53	13 40	6♑52	08	23	29 13	22	46	32
T	23	0♎24	16 52	12 58	20 58	15	22	29 51	24	46	29
W	24	1 22	17 51	12 09	5♒24	22	21	0♑29	28	46	26
Th	25	2 21	18 50	11 14	20 05	30	20	1 07	31	45	23
F	26	3 20	19 48	10 14	4 ♓ 58	37	20	1 46	36	44	19
S	27	4 19	20 45	9 10	19 54	44	20	2 24	39	44	16
Su	28	5 18	21 43	8 03	4♈44	10 51	2 20	3 03	25 43	6 43	18 13
M	29	6 17	22 39	6 55	19 19	58	D20	3 42	46	43	10
T	30	7 16	23 36	5 47	3 ♉ 33	11 05	20	4 21	50	43	07

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

SEPTEMBER, 1890

Full Moon September 28th in ♈ 5° 17′

Declination of the Planets

Day		S. T.	☉	♀	☿	☽	♄	♅	♂	♃	♆
			N	S	S	N	N	S	S	S	N
		H. M.	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
M	1	10 42	8 13	10 33	4 16	0 06	10 13	20 10	25 44	8 54	19 51
T	2	46	7 51	11 01	4 58	6 01	10	11	47	55	51
W	3	50	7 29	11 29	5 30	11 27	08	13	50	56	51
Th	4	54	7 07	11 58	5 51	16 10	05	14	52	57	51
F	5	58	6 45	12 26	6 19	19 57	03	15	54	58	51
S	6	11 02	6 22	12 53	6 47	22 43	01	16	56	59	51
Su	7	11 06	6 00	13 21	7 14	24 20	9 57	20 17	25 58	9 00	19 51
M	8	10	5 37	13 48	7 37	24 48	54	18	26 00	01	51
T	9	14	5 15	14 15	8 00	24 07	51	18	01	03	51
W	10	18	4 52	14 41	8 22	22 21	48	19	02	04	51
Th	11	22	4 29	15 07	8 39	19 38	46	20	03	05	51
F	12	26	4 06	15 33	8 56	16 05	43	20	05	07	51
S	13	30	3 43	15 59	9 12	11 52	40	21	06	08	51
Su	14	11 34	3 20	16 24	9 21	7 09	9 37	20 22	26 07	9 09	19 51
M	15	38	2 57	16 49	9 30	2 06	35	22	07	10	51
T	16	42	2 34	17 15	9 38	3s06	32	23	08	11	51
W	17	46	2 11	17 49	9 37	8 16	29	23	08	12	51
Th	18	50	1 47	18 03	9 36	13 09	27	23	08	13	51
F	19	54	1 24	18 27	9 35	17 33	24	24	07	15	50
S	20	57	1 01	18 50	9 22	21 10	21	24	07	16	50
Su	21	12 01	0 37	19 13	9 09	23 42	9 19	20 24	26 07	9 18	19 50
M	22	05	0 14	19 35	8 55	24 54	16	25	07	19	50
T	23	09	0s09	19 57	8 29	24 31	14	25	06	21	50
W	24	13	0 33	20 19	8 03	22 31	11	25	05	22	50
Th	25	17	0 56	20 40	7 37	19 01	08	26	04	23	50
F	26	21	1 20	21 00	7 00	14 15	06	26	03	24	50
S	27	25	1 43	21 20	6 22	8 37	03	26	01	26	50
Su	28	12 29	2 06	21 41	5 44	2 32	9 00	20 26	25 59	9 27	19 49
M	29	33	2 30	22 00	5 00	3N37	8 58	26	58	29	49
T	30	37	2 53	22 19	4 17	9 25	56	26	56	30	49

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

OCTOBER, 1890

New Moon October 13th in ♎ 20° 6′

Longitude of the Planets.

Day		☉ ♎ ° ′	☿ ♏ ° ′	☿ ♎ ° ′	☽ ♉ ° ′	♄ ♍ ° ′	♅ ♒ ° ′	♆ ♑ ° ′	♇ ♎ ° ′	♃ ♓ ° ′	♄ ♓ ° ′
W	1	8 15	24 32	4R42	17 21	11 12	2 21	5 00	25 54	6R41	18 04
Th	2	9 14	25 27	3 40	0♊41	19	21	5 40	57	40	01
F	3	10 13	26 22	2 45	13 35	26	22	6 19	26 01	40	17 57
S	4	11 12	27 16	1 57	26 06	33	23	6 59	05	39	54
Su	5	12 11	28 09	1 17	8♋19	40	24	7 39	08	38	51
M	6	13 11	29 02	0 48	20 20	47	26	8 19	12	37	48
T	7	14 10	29 55	0 28	2♌12	11 54	2 28	8 59	26 16	6 36	17 45
W	8	15 09	0♐47	0D20	14 02	12 01	30	9 40	19	35	42
Th	9	16 08	1 38	0 22	25 54	08	32	10 20	23	34	38
F	10	17 08	2 29	0 34	7♍52	14	34	11 01	27	34	35
S	11	18 07	3 19	0 58	19 58	21	36	11 42	31	32	32
Su	12	19 07	4 08	1 31	2♎15	28	39	12 23	34	32	28
M	13	20 06	4 56	2 13	14 44	34	42	13 04	38	31	25
T	14	21 06	5 44	3 03	27 25	12 41	2 45	13 45	26 42	6 30	17 22
W	15	22 05	6 30	4 01	10♏18	47	48	14 26	46	28	19
Th	16	23 05	7 16	5 05	23 22	53	51	15 08	49	27	16
F	17	24 04	8 01	6 16	6♐38	13 00	55	15 49	53	26	12
S	18	25 04	8 45	7 32	20 04	06	59	16 31	57	25	09
Su	19	26 04	9 28	8 52	3♑42	12	3 03	17 13	27 01	24	06
M	20	27 03	10 11	10 16	17 31	19	07	17 55	04	23	03
T	21	28 03	10 52	11 43	1♒33	13 25	3 11	18 37	27 08	6 21	17 00
W	22	29 03	11 31	13 14	15 45	31	16	19 19	12	20	16 57
Th	23	0♏03	12 10	14 46	0♓07	37	21	20 01	16	19	54
F	24	1 02	12 48	16 20	14 35	43	26	20 43	20	17	50
S	25	2 02	13 24	17 55	29 04	49	31	21 26	23	16	47
Su	26	3 02	13 59	19 32	13♈28	55	36	22 08	27	15	44
M	27	4 02	14 33	21 09	27 41	14 00	41	22 51	31	13	41
T	28	5 02	15 05	22 47	11♉38	14 06	3 46	23 33	27 35	6 12	16 38
W	29	6 02	15 36	24 26	25 15	12	52	24 16	38	11	34
Th	30	7 02	16 05	26 05	8♊30	17	58	24 59	42	09	31
F	31	8 02	16 32	27 44	21 23	23	4 04	25 42	46	08	28

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

OCTOBER, 1890

Full Moon October 27th in ♉ 4° 2′

Declination of the Planets

Day		S. T.	☉	♀	☿	☽	♄	♃	♂	♅	♆
		H. M.	S	S	S	N	N	S	S	S	N
			° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
W	1	12 41	3 16	22 38	3 33	14 36	8 52	20 26	25 53	9 31	19 49
Th	2	45	3 40	56	2 53	18 54	49	26	50	32	49
F	3	49	4 03	23 14	2 13	22 08	47	26	47	33	49
S	4	53	4 26	31	1 33	24 12	45	25	44	35	48
Su	5	56	4 49	47	1 04	25 02	42	25	41	36	48
M	6	13 00	5 12	24 03	0 34	24 41	39	25	38	37	48
T	7	13 04	5 35	24 20	0 04	23 12	8 37	20 24	25 34	9 39	19 48
W	8	08	5 58	34	0 N09	20 42	34	23	30	40	48
Th	9	12	6 21	48	0 23	17 21	32	23	26	41	48
F	10	16	6 44	25 03	0 37	13 16	30	22	21	43	47
S	11	20	7 07	16	0 35	8 37	27	21	17	44	47
Su	12	24	7 29	29	0 33	3 35	25	21	12	45	47
M	13	28	7 52	43	0 30	1s42	23	20	07	47	47
T	14	13 32	8 14	25 52	0 14	7 00	8 20	20 19	25 02	9 48	19 47
W	15	36	8 36	26 06	0 s 02	12 06	18	19	24 57	49	47
Th	16	40	8 59	18	0 18	16 44	16	18	51	51	46
F	17	44	9 21	28	0 45	20 37	13	17	46	52	46
S	18	48	9 43	38	1 12	23 28	11	16	39	53	46
Su	19	52	10 04	48	1 39	24 59	09	15	32	55	45
M	20	56	10 26	59	2 13	25 00	06	14	24	56	45
T	21	14 00	10 47	27 05	2 47	23 25	8 04	20 13	24 17	9 57	19 45
W	22	03	11 09	13	3 20	20 23	02	12	12	59	45
Th	23	07	11 30	20	3 58	16 04	00	11	05	10 00	45
F	24	11	11 51	26	4 36	10 49	7 58	09	23 57	02	45
S	25	15	12 11	32	5 14	4 58	56	08	49	03	44
Su	26	19	12 32	37	5 54	1N08	54	07	41	04	44
M	27	23	12 52	43	6 34	7 06	52	06	33	06	44
T	28	14 27	13 12	27 47	7 15	12 37	7 50	20 05	23 25	10 07	19 43
W	29	31	13 32	51	7 55	17 23	48	03	16	08	43
Th	30	35	13 52	54	8 35	21 09	46	01	07	09	43
F	31	39	14 12	57	9 16	23 44	44	00	22 58	11	42

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

NOVEMBER, 1890

New Moon November 12th in ♏ 20° 5′

Longitude of the Planets

Day		☉	☿	♂	☽	♄	♅	♆	♇	♃	♁
		♏	♐	♒	♌	♏	♑	♈	♒	♓	♊
		° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
S	1	9 02	16 58	29 23	3 56	14 28	4 10	26 25	27 50	6R06	16 25
Su	2	10 02	17 23	1♏02	16 11	34	17	27 08	53	05	21
M	3	11 02	17 45	2 41	28 14	39	23	27 51	57	03	18
T	4	12 03	18 06	4 20	10♌08	44	30	28 34	28 01	02	15
W	5	13 03	18 25	5 58	22 00	49	37	29 18	04	01	12
Th	6	14 03	18 42	7 36	3♍53	54	44	0♒01	08	5 59	09
F	7	15 03	18 57	9 14	15 53	14 59	4 51	0 44	28 12	5 57	16 06
S	8	16 04	19 10	10 52	28 03	15 04	59	1 28	16	56	03
Su	9	17 04	19 21	12 30	10♎27	09	5 06	2 12	19	54	15 59
M	10	18 04	19 29	14 07	23 06	14	14	2 55	23	53	56
T	11	19 05	19 35	15 44	6♏02	19	21	3 39	26	52	53
W	12	20 05	19 39	17 20	19 15	23	29	4 23	30	50	50
Th	13	21 05	19R41	18 57	2♐43	28	38	5 07	33	48	47
F	14	22 06	19 40	20 33	16 24	15 32	5 46	5 51	28 37	5 47	15 44
S	15	23 06	19 37	22 08	0♑17	37	54	6 35	41	45	40
Su	16	24 07	19 31	23 44	14 17	41	6 03	7 19	44	43	37
M	17	25 08	19 23	25 19	28 23	45	11	8 03	48	41	34
T	18	26 08	19 13	26 54	12♒33	49	20	8 47	51	40	31
W	19	27 09	19 00	28 29	26 45	53	29	9 31	54	38	28
Th	20	28 09	18 44	0♐04	10♓55	57	38	10 15	58	36	25
F	21	29 10	18 26	1 38	25 03	16 01	6 47	10 59	29 01	5 35	15 22
S	22	0♐11	18 06	3 12	9♈05	05	57	11 44	05	33	18
Su	23	1 11	17 44	4 46	23 00	08	7 06	12 28	08	32	15
M	24	2 12	17 19	6 20	6♉44	12	16	13 12	11	30	12
T	25	3 13	16 52	7 54	20 16	15	25	13 57	15	28	09
W	26	4 13	16 24	9 27	3♊32	18	35	14 41	18	27	06
Th	27	5 14	15 54	11 01	16 32	22	45	15 26	21	25	03
F	28	6 15	15 22	12 34	29 16	16 25	7 55	16 10	29 24	5 23	14 59
S	29	7 16	14 49	14 08	11♋44	28	8 05	16 55	28	21	56
Su	30	8 17	14 14	15 41	28 58	31	16	17 39	31	19	53

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

NOVEMBER, 1890

Eclipse of Moon November 26th in ♊ 4° 13′

Declination of the Planets

Day		S. T.	☉	♀	☿	☽	♄	♅	♂	♃	♆
		H. M.	° ′ S	° ′ S	° ′ S	° ′ N	° ′ N	° ′ S	° ′ S	° ′ S	° ′ N
S	1	14 43	14 31	27 59	9 57	25 04	7 42	19 59	22 49	10 13	19 42
Su	2	47	14 50	28 00	10 37	25 08	40	58	40	14	42
M	3	51	15 09	01	11 17	24 01	38	56	30	16	42
T	4	55	15 27	02	11 56	21 49	36	54	20	17	41
W	5	59	15 46	01	12 34	18 43	35	53	10	18	41
Th	6	15 03	16 04	00	13 12	14 51	33	51	00	19	41
F	7	15 07	16 22	27 59	13 51	10 22	7 31	19 49	21 49	10 21	19 40
S	8	11	16 39	56	14 27	5 26	29	47	39	22	40
Su	9	14	16 56	53	15 03	0 12	27	45	28	24	40
M	10	18	17 13	51	15 40	5s10	26	43	16	25	39
T	11	22	17 30	47	16 14	10 27	24	41	05	26	39
W	12	26	17 46	42	16 48	15 22	22	39	20 53	27	39
Th	13	30	18 03	37	17 22	19 39	21	37	41	28	39
F	14	15 34	18 18	27 30	17 53	22 55	7 20	19 35	20 29	10 29	19 39
S	15	38	18 34	23	18 24	24 52	18	33	17	31	39
Su	16	42	18 49	16	18 56	25 16	17	31	05	32	38
M	17	46	19 04	07	19 35	24 03	16	29	19 52	33	38
T	18	50	19 18	26 58	20 14	21 19	14	27	40	35	38
W	19	54	19 32	48	20 23	17 18	13	24	27	36	37
Th	20	58	19 46	36	20 49	12 20	12	22	13	37	37
F	21	16 02	19 59	26 24	21 15	6 43	7 10	19 19	19 00	10 38	19 37
S	22	06	20 12	12	21 40	0 48	09	17	18 47	39	36
Su	23	10	20 25	25 58	22 02	5N06	08	15	33	40	36
M	24	14	20 37	44	22 24	10 42	07	12	20	42	36
T	25	18	20 49	29	22 47	15 43	06	10	06	43	35
W	26	21	21 00	13	23 06	19 52	05	07	17 51	44	35
Th	27	25	21 11	24 56	23 26	22 57	03	04	37	45	35
F	28	16 29	21 22	24 39	23 45	24 47	7 02	19 02	17 23	10 46	19 34
S	29	33	21 32	14	24 00	25 20	01	01	09	47	34
Su	30	37	21 42	09	24 15	24 38	00	00	16 54	48	34

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

DECEMBER, 1890

Eclipse of Sun December 12th in ♐ 20° 27′

Longitude of the Planets

Day		☉ ♐ ° ′	☿ ♐ ° ′	♀ ♐ ° ′	☽ ♌ ° ′	♄ ♍ ° ′	♅ ♒ ° ′	♆ ♒ ° ′	♇ ♑ ° ′	♃ ♊ ° ′	♁ ♊ ° ′
M	1	9 17	13R39	17 14	6 01	16 34	8 26	18 24	29 34	5R18	14 50
T	2	10 18	13 03	18 48	17 56	37	37	19 09	37	16	46
W	3	11 19	12 27	20 21	29 48	39	47	19 53	40	14	43
Th	4	12 20	11 50	21 54	11♍41	42	58	20 38	43	13	40
F	5	13 21	11 14	23 27	23 40	44	9 09	21 23	46	12	37
S	6	14 22	10 38	25 00	5♎49	47	20	22 07	49	10	34
Su	7	15 23	10 03	26 33	18 13	16 49	9 31	22 52	29 52	5 08	14 31
M	8	16 24	9 28	28 06	0♍56	51	42	23 37	55	06	27
T	9	17 25	8 54	29 38	14 00	53	53	24 22	58	04	24
W	10	18 26	8 22	1♑11	27 25	55	10 05	25 06	0♍01	03	21
Th	11	19 27	7 51	2 43	11♐12	57	16	25 51	03	01	47
F	12	20 28	7 22	4 15	25 19	59	28	26 36	06	00	14
S	13	21 29	6 55	5 47	9♑40	17 00	39	27 21	09	4 58	11
Su	14	22 30	6 30	7 19	24 10	17 02	10 51	28 06	0 12	4 57	14 08
M	15	23 31	6 06	8 50	8♒44	03	11 03	28 51	14	55	05
T	16	24 32	5 45	10 20	23 16	04	15	29 36	17	53	02
W	17	25 33	5 27	11 50	7♓40	06	27	0♓20	19	51	13 58
Th	18	26 34	5 10	13 19	21 54	07	39	1 05	22	49	55
F	19	27 36	4 56	14 47	5♈54	08	51	1 50	24	48	52
S	20	28 37	4 44	16 13	19 40	08	12 03	2 35	27	47	49
Su	21	29 38	4 36	17 38	3♉12	17 09	12 15	3 20	0 29	4 45	13 46
M	22	0♑39	4 29	19 02	16 30	10	28	4 05	32	44	43
T	23	1 40	4 25	20 23	29 35	10	40	4 50	34	43	39
W	24	2 41	4D23	21 42	12♊27	11	53	5 35	36	41	36
Th	25	3 42	4 24	22 58	25 07	11	13 06	6 20	38	39	33
F	26	4 43	4 27	24 10	7♋36	11	18	7 05	40	38	30
S	27	5 45	4 33	25 18	19 54	11	31	7 50	43	36	27
Su	28	6 46	4 41	26 22	2♌02	17 11	13 44	8 34	0 45	4 35	13 24
M	29	7 47	4 51	27 20	14 02	R11	57	9 19	47	34	20
T	30	8 48	5 03	28 12	25 57	11	14 10	10 04	49	32	17
W	31	9 49	5 18	28 57	7♍48	10	23	49	51	31	14

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SIMPLIFIED SCIENTIFIC
EPHEMERIS OF THE PLANETS' PLACES
Calculated for Mean Noon at Greenwich
DECEMBER, 1890
Full Moon December 26th in ♋ 4° 43'
Declination of the Planets

Day		S. T.	☉	♀	☿	☽	♄	♅	♂	♃	♆
		H. M.	° ′ S	° ′ S	° ′ S	° ′ N	° ′ N	° ′ S	° ′ S	° ′ S	° ′ N
M	1	16 41	21 51	23 44	24 31	22 47	7 00	18 54	16 39	10 50	19 33
T	2	45	22 00	24	42	19 57	6 59	51	24	51	33
W	3	49	09	04	54	16 20	58	48	10	52	33
Th	4	53	17	22 44	25 06	12 04	57	45	15 53	53	32
F	5	56	25	23	14	7 19	56	41	30	54	32
S	6	17 01	32	02	21	2 13	56	38	18	55	32
Su	7	17 05	22 39	21 42	25 28	3S04	6 55	18 36	15 06	10 56	19 32
M	8	09	46	22	31	8 22	55	33	14 51	57	32
T	9	13	51	02	35	13 28	55	30	35	58	32
W	10	17	57	20 42	38	18 04	54	27	19	59	31
Th	11	21	23 02	23	37	21 49	53	24	13 55	11 00	31
F	12	25	07	04	36	24 21	53	21	42	01	31
S	13	29	11	19 46	35	25 20	52	18	39	02	30
Su	14	17 32	23 14	19 30	25 30	24 36	6 52	18 15	13 19	11 03	19 30
M	15	36	18	13	24	22 13	52	12	12 59	04	30
T	16	40	20	18 56	18	18 24	51	08	39	04	29
W	17	44	23	42	08	13 33	51	05	22	05	29
Th	18	48	25	28	24 58	8 01	51	02	05	06	29
F	19	52	26	14	48	2 10	51	17 58	11 48	07	28
S	20	56	27	03	32	3N42	51	54	31	08	28
Su	21	18 00	23 27	17 51	24 18	9 18	6 51	17 51	11 14	11 09	19 28
M	22	04	27	40	04	14 23	51	48	10 57	10	28
T	23	08	27	31	23 53	18 44	51	45	40	10	28
W	24	12	26	23	31	22 06	51	41	22	11	28
Th	25	16	24	15	10	24 19	51	37	04	12	27
F	26	20	22	09	22 50	25 17	51	34	9 47	13	27
S	27	24	20	04	29	24 58	51	30	29	14	27
Su	28	18 28	23 17	16 59	22 07	23 29	6 52	17 26	9 11	11 14	19 26
M	29	32	14	57	21 45	20 56	52	22	8 53	15	26
T	30	36	10	54	23	17 32	52	18	35	15	26
W	31	40	05	51	01	13 27	53	15	17	16	26

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.8802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	35	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5692	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3395	16

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2668	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	83
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	10	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	56	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1891

New Moon January 10th in ♑ 20° 0′

Longitude of the Planets

D	☉	☿	♂	☽	♄	♅	♂	♆	♇	☊
	° ♑′	° ♐′	° ♑′	° ♏′	° ♏′	° ♒′	° ♓′	° ♍′	° ♊′	° ♊′
1	10 50	5 35	29 34	19 41	17R10	14 36	11 34	0 52	4 R30	13 11
2	11 51	5 54	0 ♒ 2	1 ♎37	9	48	12 19	54	28	8
3	12 52	6 15	0 21	13 43	9	15 2	13 4	56	27	5
4	13 53	6 37	0 29	26 3	8	15	13 48	58	26	2
5	14 54	7 2	0 R25	8 ♍41	7	29	14 33	59	25	12 59
6	15 56	7 28	0 10	21 42	6	42	15 18	1 1	23	55
7	16 57	7 56	29 43	5 ♐ 9	17 5	15 56	16 3	1 3	4 22	12 52
8	17 58	8 26	29♑5	19 2	4	16 9	16 48	4	21	49
9	18 59	8 57	28 16	3 ♑22	2	23	17 32	6	20	46
10	20 0	9 29	27 16	18 3	1	36	18 17	7	19	42
11	21 1	10 4	26 9	2 ♒59	16 59	50	19 2	8	18	39
12	22 3	10 39	24 55	18 2	58	17 4	19 47	10	17	36
13	23 4	11 16	23 37	3 ♓ 1	56	17	20 31	11	16	33
14	24 5	11 54	22 18	17 48	16 54	17 31	21 16	1 12	4 15	12 30
15	25 6	12 34	21 0	2 ♈17	52	45	22 1	13	14	27
16	26 7	13 14	19 46	16 24	50	59	22 46	14	13	23
17	27 8	13 56	18 37	0 ♉ 8	48	18 13	23 30	15	12	20
18	28 9	14 39	17 34	13 31	45	27	24 15	16	11	17
19	29 10	15 22	16 40	26 34	43	41	24 59	17	10	14
20	0♒11	16 7	15 55	9 ♊20	41	55	25 44	18	10	11
21	1 12	16 53	15 18	21 53	16 38	19 9	26 29	1 19	4 9	12 8
22	2 13	17 40	14 51	4 ♋15	35	23	27 13	20	8	4
23	3 14	18 28	14 33	16 28	33	37	27 58	20	7	1
24	4 15	19 16	14 24	28 34	30	51	28 42	21	7	58
25	5 16	20 6	14D23	10♌35	27	20 5	29 26	22	6	11 55
26	6 17	20 56	14 30	22 31	24	19	0 ♈11	22	6	52
27	7 18	21 47	14 44	4 ♍24	21	33	0 55	23	5	49
28	8 19	22 39	15 4	16 16	16 17	20 48	1 40	1 23	4 5	11 45
29	9 20	23 31	15 31	28 8	14	21 2	2 24	24	4	42
30	10 21	24 24	16 3	10♎ 5	11	16	3 8	24	4	39
31	11 22	25 18	16 40	22 9	16 7	21 30	3 53	1 24	4 3	11 36

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1891

Full Moon January 25th in ♌ 5° 16′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♅	♁	♆	♇
		S	S	S	N	N	S	S	S	N
1	18 43	23 1	16 49	20 39	8 52	6 53	17 11	7 59	11 17	19 25
2	47	22 55	49	19	3 56	53	7	41	17	25
3	51	50	50	9	1 s13	54	3	23	18	25
4	55	44	50	19 39	6 25	55	16 59	4	18	25
5	59	37	51	24	11 31	55	55	6 46	19	25
6	19 3	30	54	9	16 15	56	51	27	19	25
7	19 7	22 23	16 56	18 54	20 21	6 57	16 47	6 9	11 20	19 24
8	11	15	59	45	23 25	57	43	5 51	21	24
9	14	6	17 3	37	25 6	58	39	33	21	24
10	18	21 58	7	29	25 6	59	35	14	22	24
11	22	48	11	28	23 17	7 0	31	4 56	22	24
12	26	39	16	26	19 51	1	27	37	23	24
13	30	29	21	25	15 8	2	23	19	23	23
14	19 34	18	17 27	18 29	9 34	7 3	16 19	4 0	11 23	19 23
15	38	8	32	33	3 35	4	14	3 42	24	23
16	42	20 56	37	37	2 N26	5	10	23	24	23
17	46	45	43	44	8 11	6	6	4	24	23
18	50	33	49	52	13 24	7	2	2 44	24	23
19	54	20	55	59	17 54	8	15 57	27	25	23
20	58	7	18 1	19 8	21 27	9	53	8	25	23
21	20 2	19 54	18 8	19 18	23 55	7 10	15 49	1 50	11 25	19 23
22	6	40	14	27	25 11	12	44	31	26	22
23	10	27	21	36	25 11	13	40	13	26	22
24	14	12	27	45	23 59	14	35	0 52	25	22
25	18	18 58	33	56	21 42	16	31	36	26	22
26	21	43	39	20 4	18 30	17	26	18	26	22
27	25	27	45	13	14 34	18	22	0 N 1	27	22
28	20 29	18 12	18 51	20 22	10 6	7 20	15 18	0 20	11 27	19 22
29	33	17 56	57	29	5 14	21	13	39	27	22
30	37	39	19 2	36	0 10	23	9	57	27	22
31	20 41	17 23	19 8	20 43	4 s59	7 24	15 4	1 15	11 27	19 22

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1891

New Moon February 9th in ♒ 20° 29′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♒′	° ♑′	° ♑′	° ♍′	° ♏′	° ♐′	° ♒′	° ♈′	° ♏′	° Π′	° Π′
1	12 23	26 12	17 22	4 25	16R 4	21 45	4 37	1 24	4 R 3	11 33
2	13 24	27 7	18 9	16 57	0	59	5 21	25	2	29
3	14 25	28 3	18 56	29 50	15 57	22 13	6 5	25	2	26
4	15 25	28 59	19 52	13 ♑ 9	53	28	6 49	R25	1	23
5	16 26	29 56	20 48	26 56	49	42	7 33	25	1	20
6	17 27	0♍53	21 48	11♍13	45	57	8 18	25	1	17
7	18 28	1 51	22 50	25 57	15 41	23 11	9 2	1 24	4 1	11 14
8	19 29	2 49	23 55	11♒ 3	37	25	9 46	24	0	10
9	20 29	3 48	25 2	26 21	33	40	10 30	24	0	7
10	21 30	4 47	26 11	11♓39	29	54	11 14	24	0	4
11	22 31	5 46	27 22	26 48	25	24 9	11 58	23	0	1
12	23 31	6 46	28 35	11♈36	21	23	12 41	23	0	10 58
13	24 32	7 47	29 49	25 58	16	37	13 25	22	0	55
14	25 33	8 47	1♒ 6	9 ♉51	15 12	24 52	14 9	1 22	4 0	10 51
15	26 33	9 48	2 23	23 17	8	25 6	14 53	21	0	48
16	27 34	10 50	3 42	6 ♊18	3	21	15 37	21	D 0	45
17	28 34	11 52	5 2	18 58	14 59	35	16 20	20	0	42
18	29 35	12 54	6 24	1 ♋21	54	49	17 4	19	1	39
19	0♓35	13 56	7 48	13 32	50	26 4	17 48	18	1	36
20	1 36	14 59	9 12	25 35	45	18	18 31	18	1	32
21	2 36	16 2	10 37	7 ♌32	14 41	26 33	19 15	1 17	4 1	10 29
22	3 36	17 5	12 4	19 26	36	47	19 58	16	2	26
23	4 37	18 9	13 32	1 ♍19	31	27 1	20 42	15	2	23
24	5 37	19 13	15 1	13 12	27	16	21 25	14	2	19
25	6 37	20 17	16 31	25 6	22	30	22 9	13	3	16
26	7 38	21 21	18 2	7 ♎ 2	17	44	22 52	12	3	13
27	8 38	22 26	19 34	19 3	12	59	23 36	10	4	10
28	9 38	23 31	21 7	1 ♎11	14 8	28 13	24 19	1 9	4 4	10 7

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1891

Full Moon February 23rd in ♍ 4° 37′

Declination of the Planets

D	S T	☉ S	♀ S	♂ S	☽ S	♄ N	♅ S	♃ N	♆ S	♇ N
1	20 45	17 6	19 13	20 49	10 2	7 26	14 59	1 34	11 27	19 22
2	49	16 49	18	53	14 47	27	54	53	27	22
3	53	16 31	23	58	19 2	29	50	2 11	27	22
4	57	16 13	27	21 1	22 26	31	46	29	27	22
5	21 1	15 55	31	3	24 41	32	41	47	27	22
6	5	15 37	35	3	25 24	34	37	3 5	27	22
7	21 9	15 18	19 39	21 4	24 23	7 36	14 32	3 24	11 27	19 22
8	13	14 59	42	2	21 37	38	27	42	27	22
9	17	14 40	45	0	17 18	39	22	4 0	27	22
10	21	14 21	47	20 56	11 51	41	18	18	27	22
11	25	14 1	49	52	5 44	43	13	36	26	22
12	28	13 41	50	45	0 N34	44	8	54	26	22
13	32	13 21	52	38	6 40	46	3	5 12	26	22
14	21 36	13 1	19 53	20 29	12 15	7 48	13 58	5 30	11 26	19 22
15	40	12 40	54	20	17 4	50	54	47	26	22
16	44	12 19	53	9	20 55	52	49	6 5	25	22
17	48	11 59	53	19 57	23 39	54	44	22	25	22
18	52	11 37	52	43	25 10	55	39	40	25	23
19	56	11 16	51	29	25 26	57	35	57	25	23
20	22 0	10 55	49	13	24 29	59	30	7 15	24	23
21	22 4	10 33	19 47	18 56	22 26	8 1	13 25	7 32	11 24	19 23
22	8	10 11	44	37	19 25	3	20	49	24	23
23	12	9 49	41	17	15 36	5	15	8 6	23	23
24	16	9 27	37	17 54	11 12	7	10	23	23	23
25	20	9 5	33	34	6 23	9	6	40	22	24
26	24	8 43	28	10	1 18	11	1	57	22	24
27	28	8 20	23	16 45	3 S52	13	12 56	9 14	21	24
28	22 32	7 57	19 17	16 19	8 57	8 15	12 51	9 31	11 21	19 24

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1891

New Moon March 10th in ♓ 19° 39′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♓′	° ♑′	° ♒′	° ♏′	° ♏′	° ♒′	° ♈′	° ♏′	° Π′	° Π′
1	10 39	24 36	22 42	13 29	14R 3	28 27	25 2	1 R 8	4 5	10 4
2	11 39	25 41	24 17	26 0	13 58	42	25 46	7	5	0
3	12 39	26 47	25 54	8 ♐ 50	53	56	26 29	5	6	9 57
4	13 39	27 52	27 31	22 1	48	29 10	27 12	4	7	54
5	14 39	28 58	29 10	5 ♑ 38	44	24	27 55	2	7	51
6	15 39	0 ♒ 4	0 ♓ 50	19 43	39	38	28 38	1	8	48
7	16 39	1 10	2 31	4 ♒ 16	13 34	29 52	29 21	0 59	4 9	9 45
8	17 39	2 17	4 13	19 12	29	0 ♓ 7	0 ♉ 4	58	9	41
9	18 39	3 24	5 56	4 ♓ 26	24	21	0 47	56	10	38
10	19 39	4 31	7 40	19 45	20	35	1 30	54	11	35
11	20 39	5 38	9 25	4 ♈ 59	15	49	2 13	53	12	32
12	21 39	6 45	11 12	19 57	10	1 3	2 55	51	13	29
13	22 39	7 52	13 0	4 ♉ 31	5	17	3 38	49	14	26
14	23 38	9 0	14 48	18 35	13 1	1 31	4 21	0 47	4 15	9 22
15	24 38	10 7	16 39	2 ♊ 10	12 56	44	5 4	45	16	19
16	25 38	11 15	18 30	15 17	52	58	5 46	43	17	16
17	26 38	12 23	20 23	28 0	47	2 12	6 29	42	18	13
18	27 37	13 31	22 16	10 ♋ 23	43	26	7 12	40	19	10
19	28 37	14 39	24 11	22 32	38	39	7 54	38	20	7
20	29 37	15 47	26 7	4 ♌ 31	33	53	8 37	35	21	3
21	0 ♈ 36	16 55	28 4	16 25	12 29	3 7	9 19	0 33	4 22	9 0
22	1 35	18 4	0 ♈ 3	28 16	24	20	10 2	31	23	8 57
23	2 36	19 12	2 2	10 ♍ 8	20	34	10 44	29	25	54
24	3 34	20 21	4 2	22 3	16	47	11 26	27	26	51
25	4 33	21 30	6 3	4 ♎ 1	12	4 1	12 8	25	27	48
26	5 33	22 39	8 5	16 5	7	14	12 51	23	29	44
27	6 32	23 48	10 8	28 16	3	28	13 33	20	30	41
28	7 31	24 57	12 11	10 ♏ 34	11 59	4 41	14 15	0 18	4 31	8 38
29	8 31	26 6	14 14	23 2	55	54	14 57	16	33	35
30	9 30	27 15	16 17	5 ♐ 43	51	5 7	15 39	13	34	32
31	10 29	28 25	18 19	18 37	11 47	5 20	16 21	0 11	4 36	8 29

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1891

Full Moon March 25th in ♎ 4° 33′

Declination of the Planets

D	S T	☉	☿	♀	♂	♃	♄	♅	♆	♇
		S	S	S	S	S	N	S	N	S	N
1	22 36	7 35	19 11	15 51	13 47	8 17	12 46	9 47	11 20	19 24
2	39	7 12	4	15 22	18 7	19	41	10 3	20	24
3	43	6 49	18 57	14 52	21 43	20	36	20	19	25
4	47	6 26	49	14 20	24 18	22	32	37	19	25
5	51	6 3	41	13 47	25 33	24	27	53	19	25
6	55	5 40	81	13 13	25 13	26	22	11 9	18	25
7	22 59	5 16	18 22	12 38	23 11	8 28	12 17	11 25	11 18	19 25
8	23 3	4 53	12	12 0	19 32	30	12	40	17	26
9	7	4 29	2	11 22	14 32	32	7	56	17	26
10	11	4 6	17 51	10 44	8 35	34	2	12 12	16	26
11	15	3 42	40	10 3	2 9	36	11 57	27	15	26
12	19	3 19	28	9 20	4 N19	38	53	42	15	26
13	23	2 55	16	8 38	10 23	39	48	58	14	27
14	23 27	2 32	17 3	7 53	15 43	8 41	11 43	13 18	11 14	19 27
15	31	2 8	16 50	7 8	20 4	43	38	28	13	27
16	35	1 44	36	6 22	23 15	45	33	43	12	27
17	39	1 20	21	5 34	25 8	47	28	58	11	27
18	43	0 57	6	4 45	25 43	49	24	14 13	11	28
19	46	0 33	15 51	3 55	25 3	50	19	27	10	28
20	50	0 9	35	2 58	23 13	51	14	42	9	28
21	23 54	0 N14	15 20	2 12	20 23	8 53	11 9	14 56	11 8	19 28
22	58	0 38	3	1 19	16 44	55	4	15 10	8	29
23	0 2	1 2	14 46	0 25	12 26	57	10 59	24	7	29
24	6	1 25	28	1 N 1	7 38	58	54	37	6	29
25	10	1 49	11	1 26	2 32	9 0	50	51	5	30
26	14	2 12	13 53	2 22	2 S42	2	45	16 5	4	30
27	18	2 36	34	3 18	7 54	3	40	18	4	30
28	0 22	2 59	13 15	4 15	12 51	9 5	10 36	16 31	11 3	19 30
29	26	3 23	12 55	5 12	17 22	6	31	44	2	31
30	30	3 46	35	6 9	21 10	8	26	57	1	31
31	0 34	4 9	12 15	7 6	24 0	9 9	16 22	17 10	11 1	31

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1891

New Moon April 8th in ♈ 18° 22′

Longitude of the Planets

D	☉	♀	♂	♃	♄	♅	♆	♇	☊
	° ♈′	° ♒′	° ♈′	° ♑′	° ♏′	° ♓′	° ♉′	° ♏′	° ♊′
1	11 28	29 34	20 21	1 50	11R43	5 33	17 3	0 ℞ 9	4 37	8 25
2	12 27	0♓44	22 23	15 23	40	46	17 45	6	39	22
3	13 26	1 53	24 22	29 18	36	59	18 27	4	40	19
4	14 26	3 3	26 21	13♒36	32	6 12	19 9	2	42	16
5	15 25	4 13	28 17	28 14	29	25	19 51	25♎59	43	13
6	16 24	5 23	0♉11	13♓ 8	25	38	20 33	57	45	9
7	17 23	6 33	2 2	28 10	11 22	6 50	21 15	29 54	4 46	8 6
8	18 22	7 43	3 50	13♈11	18	7 3	21 56	52	48	3
9	19 21	8 53	5 35	28 1	15	16	22 38	49	50	0
10	20 19	10 3	7 16	12♉32	12	28	23 20	47	52	7 56
11	21 18	11 13	8 53	26 39	9	40	24 1	44	53	53
12	22 17	12 23	10 25	10♊19	6	52	24 43	42	55	50
13	23 16	13 34	11 54	23 32	3	8 5	25 24	39	57	47
14	24 15	14 44	13 17	6 ♋21	11 0	8 17	26 6	29 37	4 59	7 44
15	25 13	15 54	14 35	18 49	10 57	29	26 47	34	5 0	41
16	26 12	17 5	15 49	1♌ 1	53	41	27 29	32	2	37
17	27 11	18 16	16 57	13 1	52	53	28 10	29	4	34
18	28 9	19 26	18 0	24 55	49	9 5	28 51	26	6	31
19	29 8	20 37	18 57	6 ♍47	47	16	29 33	24	8	28
20	0♉ 6	21 47	19 49	18 40	45	28	0♊14	21	10	25
21	1 5	22 58	20 35	0 ♎38	10 43	9 39	0 55	29 19	5 12	7 22
22	2 3	24 9	21 15	12 42	40	51	1 36	16	13	18
23	3 2	25 20	21 50	24 56	38	10 2	2 17	14	15	15
24	4 0	26 30	22 19	7 ♏19	36	14	2 59	11	17	12
25	4 58	27 41	22 43	19 53	35	25	3 40	8	19	9
26	5 57	28 52	23 0	2 ♐39	33	36	4 21	6	21	6
27	6 55	0♈ 3	23 12	15 37	31	47	5 2	3	23	3
28	7 53	1 14	23 18	28 49	10 30	10 58	5 42	29 1	5 26	6 59
29	8 52	2 25	23R19	12♑14	28	11 9	6 23	28 58	28	56
30	9 50	3 37	23 15	25 53	10 27	11 19	7 4	28 56	5 30	6 53

Fellowship Press, Oceanside, Calif.

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1891

Full Moon April 24th in ♏ 4° 0′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		N	S	N	S	N	S	N	S	N
1	0 38	4 33	11 54	8 2	25 36	9 10	10 17	17 22	11 0	19 31
2	42	4 56	11 33	8 57	25 44	12	13	34	59	32
3	46	5 19	11 12	9 53	24 17	13	8	47	10 58	32
4	50	5 42	10 50	10 47	21 15	15	3	59	57	33
5	54	6 4	10 28	11 40	16 50	16	9 58	18 11	57	33
6	57	6 27	10 6	12 30	11 19	17	53	23	56	33
7	1 1	6 50	9 44	13 20	5 5	9 18	9 49	18 34	10 55	19 34
8	5	7 12	9 26	14 5	1 N26	19	44	45	54	34
9	9	7 35	8 57	14 53	7 48	21	40	57	53	34
10	13	7 57	8 34	15 37	13 38	22	36	19 8	52	35
11	17	8 19	8 10	16 18	18 35	23	31	19	51	35
12	21	8 41	7 36	16 55	22 23	24	27	29	50	35
13	25	9 3	7 22	17 32	24 50	25	23	40	50	36
14	1 29	9 25	7 3	18 3	25 54	9 26	9 19	19 50	10 49	19 36
15	33	9 46	6 33	18 35	25 36	27	14	20 1	48	36
16	37	10 7	6 8	19 3	24 4	28	9	11	47	37
17	41	10 29	5 43	19 28	21 28	29	5	21	46	37
18	45	10 50	5 17	19 49	18 0	29	2	30	45	37
19	49	11 10	4 52	20 9	13 49	30	8 57	40	44	38
20	53	11 31	4 26	20 24	9 7	31	52	49	43	38
21	1 57	11 52	4 0	20 40	4 4	9 32	8 48	20 58	10 42	19 39
22	2 1	12 12	3 34	20 51	1 S12	33	44	21 7	41	39
23	4	12 32	3 8	20 59	6 30	33	40	16	40	39
24	8	12 52	2 42	21 3	11 38	34	36	24	40	40
25	12	13 11	2 16	21 7	16 22	34	32	33	39	40
26	16	13 31	1 46	21 6	20 27	35	28	41	38	40
27	20	13 50	1 22	21 5	23 35	35	24	49	37	41
28	2 24	14 9	0 56	21 0	25 31	9 36	8 20	21 57	10 36	19 41
29	28	14 28	0 29	21 52	26 1	36	16	22 4	35	41
30	2 32	14 46	0 2	20 41	24 57	9 37	8 12	22 12	10 34	19 42

Fellowship Press, Oceanside, Calif.

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1891

New Moon May 8th in ♉ 17° 35'

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♆	♃	♇
	° ♉ ′	° ♈ ′	° ♉ ′	° ♒ ′	° ♍ ′	° ♓ ′	° ♊ ′	° ♑ ′	° ♊ ′	° ♊ ′
1	10 48	4 48	23R 5	9 48	10R26	11 30	7 45	28R53	5 32	6 50
2	11 46	5 59	22 51	23 57	25	40	8 26	51	34	47
3	12 44	7 10	22 32	8 ♓20	24	51	9 4	48	36	44
4	13 42	8 22	22 9	22 51	23	12 1	9 47	46	38	40
5	14 40	9 33	21 43	7 ♈27	22	11	10 28	44	40	37
6	15 39	10 44	21 13	22 3	21	21	11 8	41	42	34
7	16 37	11 56	20 41	6 ♉30	10 21	12 31	11 49	28 39	5 44	6 31
8	17 35	13 7	20 7	20 44	20	41	12 29	36	47	28
9	18 33	14 18	19 32	4 ♊40	20	51	13 10	34	49	25
10	19 31	15 30	18 56	18 15	20	13 0	13 51	32	51	21
11	20 29	16 41	18 19	1 ♋27	19	10	14 31	29	53	18
12	21 26	17 53	17 44	14 17	19	19	15 11	27	55	15
13	22 24	19 5	17 9	26 48	D19	28	15 52	25	57	12
14	23 22	20 16	16 37	9 ♌ 3	10 19	13 37	16 32	28 22	6 0	6 8
15	24 20	21 28	16 6	21 6	20	46	17 12	20	2	5
16	25 18	22 39	15 38	3 ♍ 2	20	55	17 53	18	4	2
17	26 16	23 51	15 14	14 55	20	14 4	18 33	16	6	5 59
18	27 13	25 3	14 53	26 50	21	13	19 13	14	8	56
19	28 11	26 14	14 36	8 ♎50	22	21	19 53	12	11	53
20	29 9	27 26	14 23	21 0	22	29	20 34	10	13	50
21	0 ♊ 6	28 38	14 14	3 ♏22	10 23	14 38	21 14	28 7	6 15	5 47
22	1 4	29 50	14D 9	15 57	24	46	21 54	5	17	43
23	2 2	1 ♉ 2	14 10	28 49	25	54	22 34	3	20	40
24	2 59	2 13	14 14	11 ♐55	26	15 1	23 14	1	22	37
25	3 57	3 25	14 23	25 17	28	9	23 54	0	24	34
26	4 54	4 37	14 37	8 ♑53	29	16	24 34	27 58	26	30
27	5 52	5 49	14 55	22 41	31	24	25 14	56	29	27
28	6 50	7 1	15 17	6 ♒39	10 32	15 31	25 54	27 54	6 31	5 24
29	7 47	8 13	15 44	20 45	34	38	26 34	52	33	21
30	8 45	9 25	16 15	4 ♓56	36	45	27 14	50	35	18
31	9 42	10 37	16 50	19 11	10 37	15 52	27 53	27 49	6 37	5 15

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1891

Eclipse of Moon May 23rd in ♐ 2° 2′

Declination of the Planets

D	S T	☉	☿	♂	☽	♄	♃	♂	♅	♆
		N	N	N	S	N	S	N	S	N
1	2 36	15 5	0 25	20 28	22 21	9 37	8 8	22 19	10 33	19 42
2	40	23	0 52	20 12	18 23	37	5	26	33	43
3	44	40	1 19	19 56	13 18	38	1	33	32	43
4	48	58	1 46	19 36	7 26	38	7 57	39	31	44
5	52	16 15	2 13	19 15	1 8	38	53	46	30	44
6	56	32	2 40	18 51	5 N14	38	49	52	29	45
7	3 0	16 49	3 7	18 27	11 18	9 38	7 46	22 58	10 28	19 45
8	4	17 5	3 35	18 2	16 40	38	43	23 3	28	45
9	8	21	4 1	17 36	21 1	38	39	9	27	46
10	12	37	4 28	17 9	24 6	38	35	15	26	46
11	15	53	4 55	16 42	25 46	38	32	20	25	46
12	19	18 8	5 21	16 16	25 59	38	28	25	24	47
13	23	23	5 48	15 50	24 51	38	25	30	23	47
14	3 27	18 38	6 15	15 26	22 33	9 37	7 22	23 35	10 23	19 47
15	31	52	6 42	15 1	19 18	37	19	39	22	48
16	35	19 6	7 8	14 38	15 18	37	15	43	21	48
17	39	20	7 34	14 17	10 44	37	12	47	21	49
18	43	33	8 1	13 59	5 46	37	9	50	20	49
19	47	46	8 27	13 41	0 33	36	6	54	19	50
20	51	59	8 52	13 27	4 S46	36	3	57	19	50
21	3 55	20 11	9 18	13 14	10 0	9 35	7 0	24 0	10 18	19 50
22	59	23	9 44	13 3	14 56	35	6 57	3	17	51
23	4 3	35	10 9	13 55	19 19	34	55	6	17	51
24	7	46	10 34	12 51	22 50	34	52	9	16	52
25	11	57	10 59	12 47	25 10	33	49	11	15	52
26	15	21 8	11 24	12 47	26 4	32	47	13	15	52
27	19	18	11 49	12 49	25 23	31	44	15	14	53
28	4 22	21 28	12 13	12 51	23 6	9 31	6 41	24 17	10 13	19 53
29	26	37	12 37	12 57	19 26	30	39	18	13	53
30	30	46	13 1	13 6	14 37	29	37	19	12	54
31	4 34	21 55	13 24	13 14	9 0	9 28	6 34	24 20	10 11	19 54

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1891

Eclipse of Sun June 6th in ♊ 15° 27′

Longitude of the Planets

	☉	☿	♂	♃	♄	♅	♆	♇	☊
	° ♊′	° ♉′	° ♉′	° ♈′	° ♒′	° ♓′	° ♐′	° ♊′	° ♊′
1	10 40	11 49	17 29	3 26	10 39	15 58	28 33	27R47	6 40	5 11
2	11 37	13 1	18 12	17 39	42	16 5	29 13	45	42	8
3	12 34	14 13	18 59	1 ♉47	44	11	29 52	44	44	5
4	13 32	15 25	19 49	15 46	46	17	0♋32	42	46	2
5	14 29	16 37	20 43	29 35	48	23	1 11	41	49	4 59
6	15 27	17 50	21 41	13♊ 9	51	29	1 51	39	51	55
7	16 24	19 2	22 42	26 28	10 53	16 34	2 31	27 38	6 53	4 52
8	17 22	20 14	23 47	9 ♋30	56	40	3 10	37	55	49
9	18 19	21 26	24 55	22 15	59	45	3 50	35	58	46
10	19 16	22 39	26 6	4 ♌43	11 2	50	4 29	34	7 0	43
11	20 14	23 51	27 20	16 58	5	55	5 9	33	2	40
12	21 11	25 3	28 38	29 1	8	17 0	5 48	32	4	36
13	22 8	26 15	29 59	10♍58	11	5	6 28	31	6	33
14	23 6	27 28	1♊ 23	22 51	11 14	17 9	7 7	27 29	7 9	4 30
15	24 3	28 40	2 50	4 ♎46	17	13	7 46	28	11	27
16	25 0	29 53	4 20	16 46	21	18	8 26	27	13	24
17	25 57	1♋ 5	5 53	28 58	24	22	9 5	26	15	21
18	26 55	2 17	7 29	11♏24	28	25	9 44	26	17	17
19	27 52	3 30	9 8	24 9	31	29	10 24	25	19	14
20	28 49	4 42	10 50	7 ♐13	35	32	11 3	24	21	11
21	29 46	5 55	12 34	20 39	11 39	17 35	11 42	27 23	7 24	4 8
22	0♋44	7 7	14 22	4 ♑24	43	38	12 21	22	26	5
23	1 41	8 20	16 13	18 26	47	41	13 0	22	28	2
24	2 38	9 32	18 6	2 ♒42	51	44	13 40	21	30	3 58
25	3 35	10 45	20 2	17 6	55	46	14 19	21	32	55
26	4 32	11 58	22 0	1 ♓32	59	49	14 58	20	34	52
27	5 30	13 10	24 0	15 57	12 4	51	15 37	20	36	49
28	6 27	14 23	26 3	0 ♈15	12 8	17 53	16 16	27 19	7 38	3 46
29	7 24	15 36	28 7	14 24	12	54	16 55	19	40	43
30	8 21	16 48	0♋13	28 22	12 17	17 56	17 34	27 19	7 42	3 39

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1891

Full Moon June 22nd in ♑ 0° 44′

Declination of the Planets

☽	S T	☉	☿	♂	☽	♄	♅	♂	♆	♇
		N	N	N	S	N	S	N	S	N
1	4 38	22 4	13 47	13 26	2 55	9 27	6 32	24 21	10 10	19 54
2	42	12	14 16	13 40	3 N19	24	29	21	10	54
3	46	19	14 36	13 54	9 21	25	27	22	9	55
4	50	26	14 55	14 11	14 52	24	25	23	9	56
5	54	33	15 17	14 29	19 33	23	23	23	8	56
6	58	40	15 38	14 49	23 6	22	21	22	7	56
7	5 2	22 46	16 0	15 9	25 18	9 21	6 19	24 22	10 7	19 57
8	6	51	16 21	15 32	26 4	20	17	21	6	57
9	10	56	16 41	15 54	25 25	19	15	21	6	58
10	14	23 1	17 1	16 17	23 29	18	14	20	6	58
11	18	6	17 21	16 42	20 31	16	12	19	5	59
12	22	10	17 40	17 7	16 43	15	10	17	5	59
13	26	13	17 58	17 33	12 18	14	9	16	5	59
14	5 29	23 16	18 17	17 59	7 27	9 12	6 7	24 14	10 4	20 0
15	33	19	18 35	18 26	2 19	11	6	12	4	0
16	37	22	18 52	18 53	2 S57	9	5	10	4	0
17	41	24	19 9	19 20	8 12	8	3	8	3	1
18	45	25	19 25	19 46	13 14	7	2	5	3	1
19	49	26	19 41	20 13	17 50	5	1	2	3	1
20	53	27	19 56	20 38	21 42	4	0	23 59	3	2
21	5 57	23 27	20 12	21 4	24 30	9 2	5 59	23 56	10 2	20 2
22	6 1	27	20 26	21 29	25 56	0	58	53	2	2
23	5	27	20 40	21 53	25 44	8 59	57	49	2	2
24	9	26	20 53	22 15	23 51	57	57	45	2	3
25	13	24	21 6	22 36	20 26	55	56	42	2	3
26	17	23	21 18	22 55	15 47	53	55	38	2	3
27	21	20	21 30	23 14	10 15	52	55	34	1	4
28	6 25	23 18	21 41	23 29	4 14	8 50	5 54	23 29	10 1	20 4
29	29	15	21 51	23 43	1 N58	48	54	24	1	4
30	6 33	23 11	22 1	23 54	7 59	8 46	5 53	23 20	10 1	20 5

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1891

New Moon July 6th in ♋ 14° 4′

Longitude of the Planets

D	☉	♀	♂	♃	♄	♅	♆	♇	☊
	° ♋′	° ♊′	° ♋′	° ♈′	° ♒′	° ♓′	° ♑′	° ♊′	° ♊′
1	9 18	18 1	2 21	12 8	12 22	17 57	18 13	27R18	7 44	3 36
2	10 16	19 14	4 30	25 43	26	58	18 52	18	46	33
3	11 13	20 27	6 39	9 ♊ 6	31	59	19 31	18	48	30
4	12 10	21 40	8 49	22 17	36	18 0	20 10	18	50	26
5	13 7	22 53	10 59	5 ♋15	41	0	20 49	18	52	23
6	14 4	24 5	13 9	18 1	46	1	21 28	18	54	20
7	15 2	25 18	15 19	0 ♌34	12 51	18 1	22 6	27 18	7 56	3 17
8	15 59	26 31	17 28	12 55	56	1	22 45	18	58	14
9	16 56	27 44	19 37	25 4	13 1	1	23 24	D18	59	11
10	17 53	28 57	21 44	7 ♍ 5	6	R 0	24 3	19	8 1	7
11	18 51	0♋10	23 51	19 0	12	0	24 42	19	3	4
12	19 48	1 23	25 56	0 ♎51	17	17 59	25 21	19	5	1
13	20 45	2 36	28 0	12 44	23	58	25 59	19	7	2 58
14	21 42	3 50	0 ♌ 2	24 44	13 28	17 57	26 38	27 20	8 8	2 55
15	22 39	5 3	2 2	6 ♍54	34	55	27 17	20	10	52
16	23 37	6 16	4 1	19 20	40	54	27 55	21	12	48
17	24 34	7 29	5 58	2 ♐ 6	45	52	28 34	21	13	45
18	25 31	8 42	7 54	15 17	51	50	29 13	22	15	42
19	26 28	9 55	9 47	28 53	57	48	29 51	23	17	39
20	27 26	11 9	11 39	12♑55	14 3	45	0♌30	24	18	36
21	28 23	12 22	13 29	27 19	14 9	17 43	1 9	27 24	8 20	2 33
22	29 20	13 35	15 18	12♒ 0	15	40	1 47	25	21	29
23	0♌17	14 49	17 4	26 51	21	37	2 26	26	23	26
24	1 15	16 2	18 49	11♓42	27	34	3 4	27	24	23
25	2 14	17 15	20 32	26 26	33	31	3 43	28	26	20
26	3 9	18 29	22 14	10♈57	39	27	4 21	29	27	17
27	4 7	19 42	23 53	25 10	45	23	5 0	30	29	14
28	5 4	20 50	25 31	9 ♉ 4	14 52	17 20	5 38	27 31	8 30	2 10
29	6 1	22 9	27 7	22 40	58	16	6 17	33	32	7
30	6 59	23 23	28 41	5 ♊59	15 5	11	6 55	34	33	4
31	7 56	24 36	0♍14	19 3	15 11	17 7	7 34	27 35	8 35	2 1

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1891

Full Moon July 21st. in ♑ 28° 23′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		N	N	N	N	N	S	N	S	N
1	6 37	23 8	22 10	24 3	13 33	8 44	5 53	23 15	10 1	20 5
2	40	3	18	8	18 23	42	53	9	1	5
3	44	22 59	27	13	22 11	40	53	4	1	5
4	48	54	34	14	24 46	38	53	22 59	1	6
5	52	48	41	12	25 57	36	53	53	1	6
6	56	43	47	6	25 44	34	53	47	1	6
7	7 0	22 36	22 53	23 59	24 12	8 32	5 53	22 41	10 1	20 6
8	4	30	57	48	21 32	30	54	35	1	6
9	8	23	23 1	36	17 57	28	54	29	1	7
10	12	15	5	21	13 41	26	55	22	1	7
11	16	8	8	3	8 56	24	55	15	2	7
12	20	0	9	22 41	3 53	21	55	8	2	7
13	24	21 51	11	20	1 s19	19	56	1	2	8
14	7 28	21 42	23 11	21 55	6 32	8 17	5 57	21 54	10 2	20 8
15	32	33	12	30	11 35	15	58	47	2	8
16	36	23	12	2	16 17	13	59	39	2	9
17	40	13	10	20 32	20 24	10	6 0	32	3	9
18	44	3	8	0	23 37	8	1	24	3	9
19	47	20 52	6	19 29	25 35	6	2	16	3	9
20	51	41	2	18 55	26 1	4	3	7	3	9
21	7 55	20 30	22 59	18 22	24 43	8 1	6 4	20 59	10 4	20 10
22	59	18	54	17 46	21 44	7 59	6	51	4	10
23	8 3	6	49	10	17 18	56	7	42	4	10
24	7	19 54	43	16 33	11 50	53	9	33	5	10
25	11	41	36	15 56	5 43	51	10	25	5	10
26	15	28	28	17	0 N37	48	12	16	6	11
27	19	14	21	14 39	6 48	46	14	7	6	11
28	8 23	19 1	22 12	14 0	12 32	7 44	6 15	19 57	10 7	20 11
29	27	18 47	3	13 21	17 32	41	17	48	7	11
30	31	32	21 52	12 42	21 32	38	19	38	8	12
31	8 35	18 18	21 42	12 2	24 22	7 36	6 21	19 29	10 8	20 12

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1891

New Moon August 4th in ♌ 11° 46′

Longitude of the Planets

D	☉	☿	♂	☽	♃	♅	♄	♆	♇	☊
	° ♌′	° ♍′	° ♏′	° ♑′	° ♏′	° ♓′	° ♌′	° ♒′	° ♊′	° ♊′
1	8 54	25 50	1 45	1 53	15 18	17R 2	8 12	27 37	8 36	1 58
2	9 51	27 4	3 14	14 32	24	16 58	8 51	38	37	54
3	10 49	28 17	4 42	27 1	31	53	9 29	39	38	51
4	11 46	29 31	6 7	9 ♌20	37	48	10 7	41	40	48
5	12 43	0♌45	7 31	21 31	44	43	10 46	42	41	45
6	13 41	1 59	8 53	3 ♍34	51	37	11 24	44	42	42
7	14 39	3 12	10 13	15 30	15 58	16 32	12 3	27 46	8 43	1 39
8	15 36	4 26	11 31	27 22	16 4	26	12 41	47	44	35
9	16 34	5 40	12 47	9 ♎11	11	20	13 19	49	45	32
10	17 31	6 54	14 1	21 3	18	14	13 58	51	46	29
11	18 29	8 8	15 13	3 ♍ 0	25	8	14 36	53	47	26
12	19 26	9 22	16 23	15 7	32	2	15 14	55	48	23
13	20 24	10 35	17 31	27 30	39	15 56	15 53	57	49	20
14	21 22	11 49	18 36	10 ♐13	16 46	15 49	16 31	27 59	8 50	1 16
15	22 19	13 3	19 39	23 22	53	43	17 9	28 1	51	13
16	23 17	14 17	20 39	6 ♑59	17 0	36	17 48	3	52	10
17	24 15	15 31	21 36	21 6	7	29	18 26	5	53	7
18	25 12	16 46	22 31	5 ♒40	14	22	19 4	7	54	3
19	26 10	18 0	23 23	20 36	21	15	19 42	9	55	0
20	27 8	19 14	24 11	5 ♓45	29	8	20 21	11	55	0 57
21	28 6	20 28	24 57	20 57	17 36	15 1	20 59	28 14	8 56	0 54
22	29 4	21 42	25 38	6 ♈ 2	43	14 54	21 37	16	57	51
23	0 ♍ 1	22 56	26 16	20 49	50	46	22 15	18	57	48
24	0 59	24 10	26 50	5 ♉15	57	39	22 53	21	58	44
25	1 57	25 25	27 20	19 15	18 5	31	23 32	23	59	41
26	2 55	26 39	27 45	2 ♊51	12	24	24 10	26	59	38
27	3 53	27 53	28 6	16 4	20	16	24 48	28	9 0	35
28	4 51	29 8	28 21	28 59	18 27	14 8	25 26	28 31	9 0	0 32
29	5 49	0♍22	28 31	11♋37	35	0	26 4	33	1	29
30	6 47	1 36	28R36	24 2	42	13 53	26 43	36	1	25
31	7 45	2 51	28 35	6 ♌18	18 49	13 45	27 21	28 39	9 2	0 22

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1891

Full Moon August 19th in ♒ 26° 10′

Declination of the Planets

D	S T	☉	♀	♂	☽	♃	♅	♂	♆	♇
		N	N	N	N	N	S	N	S	N
1	8 39	18 3	21 31	11 22	25 52	7 34	6 23	19 19	10 9	20 12
2	43	17 47	19	10 43	25 58	31	25	9	9	12
3	47	17 32	7	10 3	24 46	28	27	18 59	9	12
4	51	17 16	20 54	9 23	22 22	26	29	48	10	12
5	55	17 0	40	8 44	19 0	23	32	38	10	13
6	58	16 44	26	8 5	14 53	20	34	28	11	13
7	9 2	16 27	20 11	7 26	10 14	7 18	6 36	18 17	10 12	20 13
8	6	16 10	19 56	6 48	5 14	15	38	6	12	13
9	10	15 53	40	6 10	0 3	12	41	17 55	13	13
10	14	15 35	23	5 32	5 s 9	10	44	44	14	13
11	18	15 18	6	4 55	10 13	7	46	33	14	13
12	22	15 0	18 48	4 19	14 59	4	49	22	15	13
13	26	14 42	30	3 43	19 14	1	52	11	16	14
14	9 30	14 23	18 11	3 9	22 43	6 59	6 54	17 0	10 16	20 14
15	34	14 5	17 52	2 34	25 8	56	57	16 48	17	14
16	38	13 46	32	2 1	26 10	53	7 0	36	18	14
17	42	13 27	12	1 29	25 34	50	3	24	19	14
18	46	13 7	16 51	0 58	23 14	47	5	12	20	14
19	50	12 48	30	0 28	19 17	45	8	1	21	14
20	54	12 28	8	0 1	14 2	42	11	15 48	21	14
21	9 58	12 8	15 46	0 s 27	7 55	6 39	7 14	15 36	10 22	20 14
22	10 2	11 48	24	0 54	1 22	36	17	24	23	14
23	5	11 28	1	1 18	5 N 8	33	20	12	24	14
24	9	11 8	14 37	1 39	11 14	30	23	14 59	25	14
25	13	10 47	13	2 1	16 35	28	26	47	26	15
26	17	10 26	13 49	2 18	20 56	25	29	34	27	15
27	21	10 5	25	2 35	24 3	22	32	21	28	15
28	10 25	9 44	13 0	2 49	25 50	6 19	7 36	14 9	10 29	20 15
29	29	9 23	12 34	2 59	26 14	16	39	13 56	30	15
30	33	9 1	8	3 6	25 17	13	42	43	31	15
31	10 37	8 40	11 43	3 13	23 8	6 10	7 45	13 30	10 32	20 15

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1891

New Moon September 3rd in ♍ 10° 40′

Longitude of the Planets

D	☉	☿	♂	♃	♄	♅	♆	♇	☊
	° ♍′	° ♍′	° ♍′	° ♌′	° ♍′	° ♐′	° ♌′	° ♏′	° ♊′
1	8 43	4 5	28R28	18 25	18 57	13R37	27 59	28 41	9 2	0 19
2	9 41	5 19	28 14	0 ♍26	19 4	29	28 37	44	2	16
3	10 40	6 34	27 55	12 22	11	21	29 15	47	3	13
4	11 38	7 48	27 29	24 15	19	13	29 53	50	3	10
5	12 36	9 3	26 56	6 ♎ 5	26	5	0♍32	53	3	6
6	13 34	10 17	26 19	17 55	34	12 57	1 10	55	3	3
7	14 32	11 32	25 34	29 47	19 42	12 49	1 48	28 58	9 4	0 0
8	15 31	12 47	24 44	11♏45	49	41	2 26	29 1	4	29 57
9	16 29	14 1	23 50	23 52	56	33	3 4	4	4	♉54
10	17 27	15 16	22 52	6 ♐13	20 4	25	3 42	7	4	50
11	18 26	16 30	21 52	18 53	11	17	4 20	10	4	47
12	19 24	17 45	20 50	1 ♑56	19	10	4 58	14	4	44
13	20 23	19 0	19 49	15 27	26	2	5 36	17	4	41
14	21 21	20 14	18 48	29 28	20 34	11 54	6 15	29 20	9 4	29 38
15	22 20	21 29	17 51	13♒57	42	46	6 53	23	4	35
16	23 18	22 43	16 58	28 52	49	39	7 31	26	R 4	31
17	24 17	23 58	16 11	14♓ 5	56	31	8 9	29	3	28
18	25 15	25 13	15 31	29 25	21 4	24	8 47	33	3	25
19	26 14	26 28	14 58	14♈41	11	16	9 25	36	3	22
20	27 13	27 42	14 35	29 42	19	9	10 3	39	3	19
21	28 11	28 57	14 20	14♉21	21 26	11 2	10 41	29 43	9 2	29 16
22	29 10	0♎12	14 16	28 33	34	10 54	11 19	46	2	12
23	0 ♎ 9	1 27	14D22	12♊17	41	47	11 57	49	2	9
24	1 8	2 41	14 37	25 34	49	40	12 35	53	1	6
25	2 6	3 56	15 3	8 ♋28	56	33	13 13	56	1	3
26	3 5	5 11	15 37	21 3	22 3	27	13 52	0 ♏ 0	0	0
27	4 4	6 26	16 21	3 ♌22	11	20	14 30	3	0	28 57
28	5 3	7 41	17 13	15 30	22 18	10 13	15 8	0 7	8 59	28 53
29	6 2	8 56	18 13	27 30	26	7	15 46	10	59	50
30	7 1	10 10	19 20	9 ♍25	22 33	10 1	16 24	0 14	8 58	28 47

Fellowship Press, Oceanside, Calif.

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1891

Full Moon September 18th in ♓ 25° 15′

Declination of the Planets

☽	S T	☉	♀	♂	☽	♄	♅	♁	♃	♆
		N	N	S	N	N	S	N	S	N
1	10 41	8 18	11 16	3 14	19 58	6 7	7 48	13 16	10 33	20 15
2	45	7 56	10 49	3 11	16 0	5	51	3	34	15
3	49	7 34	10 23	3 7	11 26	2	54	12 50	35	15
4	53	7 12	9 56	2 58	6 28	5 59	57	36	36	15
5	57	6 50	9 28	2 46	1 16	56	8 1	23	37	15
6	11 1	6 28	9 0	2 27	3 s58	53	4	10	38	15
7	11 5	6 5	8 32	2 8	9 6	5 50	8 7	11 56	10 39	20 15
8	9	5 43	7 7	1 42	13 56	47	10	42	40	15
9	12	5 20	7 36	1 16	18 19	44	13	28	41	15
10	16	4 57	7 7	0 45	21 59	41	16	14	42	15
11	20	4 34	6 38	0 11	24 43	38	19	1	43	14
12	24	4 12	6 9	0 5	26 12	35	22	10 47	44	14
13	28	3 49	5 40	1 N 2	26 13	32	25	33	46	14
14	11 32	3 26	5 11	1 40	24 35	5 30	8 28	10 18	10 47	20 14
15	36	3 3	4 41	2 19	21 20	27	31	4	48	14
16	40	2 39	4 11	2 57	16 36	24	34	9 50	49	14
17	44	2 16	3 41	3 33	10 45	21	37	36	50	14
18	48	1 53	3 11	4 0	4 12	18	40	21	51	14
19	52	1 30	2 41	4 38	2 N31	15	42	7	52	14
20	56	1 6	2 11	5 3	9 7	12	45	8 52	54	14
21	12 0	0 43	1 41	5 29	15 0	5 9	8 48	8 38	10 55	20 14
22	4	0 20	1 10	5 48	19 54	6	51	24	56	14
23	8	0 s 4	0 40	6 2	23 32	3	53	9	57	14
24	12	0 27	0 10	6 9	25 45	0	56	7 54	58	14
25	16	0 50	0 s21	6 17	26 30	4 58	59	40	59	13
26	20	1 14	0 50	6 14	25 51	55	9 1	25	11 0	13
27	23	1 37	1 22	6 12	23 56	52	3	11	2	13
28	12 27	2 1	1 52	6 3	20 57	4 49	9 6	6 56	11 3	20 13
29	31	2 24	2 23	5 49	17 8	46	8	41	5	13
30	12 35	2 47	2 53	5 32	12 40	43	11	6 26	11 6	20 13

Fellowship Press, Oceanside, Calif.

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1891

New Moon October 3rd in ♎ 9° 58′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♃	♆	♇
	° ♎′	° ♎′	° ♏′	° ♏′	° ♏′	° ♐′	° ♏′	° ♍′	° ♊′	° ♉′
1	8 0	11 25	20 33	21 17	22 40	9 R55	17 2	0 17	8 R58	28 44
2	8 59	12 40	21 51	3 ♎ 8	48	49	17 40	21	57	41
3	9 58	13 55	23 15	14 59	55	43	18 18	24	56	38
4	10 58	15 10	24 42	26 53	23 2	37	18 56	28	56	34
5	11 57	16 25	26 13	8 ♏ 51	10	31	19 34	31	55	31
6	12 56	17 40	27 48	20 55	17	26	20 12	35	54	28
7	13 55	18 55	29 24	3 ♐ 8	23 24	9 21	20 50	0 39	8 53	28 25
8	14 55	20 10	1 ♎ 3	15 34	31	16	21 28	42	53	21
9	15 54	21 25	2 44	28 16	38	11	22 6	46	52	18
10	16 53	22 40	4 25	11♑17	45	6	22 44	50	51	15
11	17 53	23 55	6 8	24 42	53	1	23 22	53	50	12
12	18 52	25 10	7 51	8 ♒ 32	24 0	8 57	24 0	57	49	9
13	19 51	26 24	9 34	22 48	7	53	24 39	1 1	48	6
14	20 51	27 39	11 18	7 ♓ 29	24 14	8 49	25 17	1 5	8 47	28 2
15	21 50	28 54	13 2	22 28	21	45	25 55	8	46	27 59
16	22 50	0 ♏ 9	14 46	7 ♈ 37	28	41	26 33	12	45	56
17	23 49	1 24	16 29	22 48	34	38	27 11	16	44	53
18	24 49	2 39	18 13	7 ♉ 50	41	34	27 49	20	43	50
19	25 49	3 54	19 56	22 35	48	31	28 27	23	42	47
20	26 48	5 9	21 38	6 ♊ 55	55	28	29 5	27	40	43
21	27 48	6 24	23 20	20 48	25 2	8 25	29 43	1 31	8 39	27 40
22	28 48	7 39	25 2	4 ♋ 14	8	23	0♎21	35	38	37
23	29 48	8 54	26 43	17 14	15	21	0 59	38	37	34
24	0♏47	10 9	28 24	29 53	22	18	1 37	42	36	31
25	1 47	11 24	0 ♏ 4	12♌13	28	16	2 15	46	34	28
26	2 47	12 39	1 44	24 19	35	15	2 53	50	33	24
27	3 47	13 54	3 23	6 ♍17	41	13	3 31	53	32	21
28	4 47	15 9	5 2	18 9	25 48	8 12	4 9	1 57	8 30	21 18
29	5 47	16 24	6 40	29 59	54	11	4 47	2 1	29	15
30	6 47	17 39	8 18	11♎50	26 0	10	5 25	5	28	12
31	7 47	18 54	9 55	23 46	26 6	8 9	6 3	2 8	8 26	27 9

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1891

Full Moon October 17th in ♈ 23° 49′

Declination of the Planets

D	S T	☉ S	♀ S	♂ N	♃ N	♄ N	♅ S	♆ N	♇ S	♇ N
1	12 39	3 11	3 23	5 10	7 45	4 41	9 13	6 11	11 7	20 13
2	43	3 34	3 53	4 44	2 33	38	15	5 57	8	13
3	47	3 57	4 24	4 18	2 s44	35	17	42	9	12
4	51	4 21	4 54	3 47	7 58	32	19	27	11	12
5	55	4 44	5 24	3 14	12 57	29	21	12	12	12
6	59	5 7	5 54	2 37	17 29	27	23	4 57	13	12
7	13 3	5 30	6 24	2 1	21 21	4 24	9 25	4 42	11 14	20 12
8	7	5 53	6 53	1 22	24 20	21	27	26	15	12
9	11	6 16	7 23	0 42	26 9	18	28	11	17	11
10	15	6 39	7 53	0 1	26 36	16	30	3 56	19	11
11	19	7 1	8 22	0 s42	25 31	13	32	41	20	11
12	23	7 24	8 52	1 25	22 53	10	33	26	21	11
13	27	7 46	9 20	2 8	18 48	8	35	11	22	11
14	13 30	8 9	9 46	2 52	13 30	4 5	9 36	2 55	11 24	20 11
15	34	8 31	10 17	3 36	7 17	2	37	40	25	10
16	38	8 53	10 45	4 20	0 35	0	39	25	26	10
17	42	9 15	11 13	5 4	6 N11	3 57	40	10	28	10
18	46	9 37	11 41	5 48	12 33	55	41	1 55	29	10
19	50	9 59	12 8	6 32	18 5	52	42	40	30	9
20	54	10 21	12 34	7 14	22 25	49	43	24	32	9
21	13 58	10 42	13 2	7 59	25 17	3 47	9 44	1 9	11 33	20 9
22	14 2	11 3	13 28	8 42	26 36	44	44	0 54	34	9
23	6	11 25	13 55	9 24	26 22	42	45	39	35	9
24	10	11 46	14 20	10 2	24 46	39	45	23	37	9
25	14	12 6	14 46	10 48	22 1	37	46	8	38	8
26	18	12 27	15 11	11 28	18 21	35	46	0 s 7	39	8
27	22	12 47	15 36	12 9	14 0	32	47	22	41	8
28	14 26	13 8	16 0	12 48	9 10	3 30	9 47	0 38	11 42	20 8
29	30	13 28	16 24	13 27	4 1	27	48	53	43	7
30	34	13 47	16 46	14 5	1 s18	25	48	1 8	44	7
31	14 38	14 7	17 10	14 42	6 36	3 23	9 48	1 23	11 46	20 7

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1891

New Moon November 1st in ♏ 8° 47′

Longitude of the Planets

D	☉	☿	♂	☽	♄	♅	♃	♆	♇
	° ♏′	° ♏′	° ♏′	° ♏′	° ♑′	° ♈′	° ♎′	° ♏′	° Ⅱ′	° ♉′
1	8 47	20 10	11 31	5 46	26 13	8 R 9	6 41	2 12	8 R25	27 6
2	9 47	21 25	13 8	17 55	19	8	7 19	16	24	2
3	10 47	22 40	14 44	0 ♐ 12	25	8	7 58	20	22	26 59
4	11 48	23 55	16 19	12 40	31	D 8	8 36	23	21	56
5	12 48	25 10	17 54	25 20	37	9	9 14	27	19	53
6	13 48	26 25	19 29	8 ♑13	43	9	9 52	31	18	49
7	14 48	27 40	21 3	21 22	26 49	8 10	10 30	2 35	8 16	26 46
8	15 49	28 55	22 37	4 ♒49	54	11	11 8	38	15	43
9	16 49	0 ♐ 10	24 11	18 34	27 0	12	11 46	42	13	40
10	17 49	1 25	25 44	2 ♓37	6	13	12 24	46	11	37
11	18 50	2 40	27 17	16 58	11	15	13 2	49	10	34
12	19 50	3 55	28 50	1 ♈34	17	16	13 40	53	8	30
13	20 50	5 10	0 ♐ 22	16 20	22	18	14 18	57	7	27
14	21 51	6 25	1 54	1 ♉ 9	27 28	8 20	14 56	3 0	8 5	26 24
15	22 51	7 40	3 26	15 54	33	23	15 34	4	3	21
16	23 52	8 55	4 58	0 Ⅱ29	38	25	16 12	8	2	18
17	24 52	10 10	6 29	14 46	44	28	16 50	11	0	15
18	25 53	11 25	8 0	28 41	49	31	17 28	15	7 59	12
19	26 53	12 40	9 30	12♋11	54	34	18 6	18	57	8
20	27 54	13 55	11 1	25 18	59	37	18 44	22	55	5
21	28 54	15 10	12 31	8 ♌ 2	28 4	8 41	19 22	3 25	7 54	26 2
22	29 55	16 25	14 1	20 26	8	45	20 0	29	52	25 59
23	0 ♐ 56	17 40	15 31	2 ♍35	13	49	20 39	32	50	56
24	1 57	18 55	17 0	14 33	17	53	21 17	36	49	52
25	2 57	20 10	18 29	26 25	22	57	21 55	39	47	49
26	3 58	21 25	19 57	8 ♎15	27 9	1	22 33	42	45	46
27	4 59	22 40	21 25	20 8	31	6	23 11	46	43	43
28	6 0	23 55	22 52	2 ♏ 7	28 35	9 11	23 49	3 49	7 42	25 39
29	7 0	25 10	24 19	14 16	40	16	24 27	52	40	36
30	8 1	26 25	25 45	26 36	28 44	9 21	25 5	3 56	7 38	25 33

Fellowship Press, Oceanside, Calif.

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1891

Eclipse of Moon November 16th in ♉ 23° 52′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♅	♂	♃	♆
		S	S	S	S	N	S	S	S	N
1	14 41	14 26	17 33	15 19	11 43	3 20	9 48	1 38	11 47	20 6
2	45	46	55	15 4	16 27	18	48	53	48	6
3	49	15 4	18 17	16 30	20 34	16	48	2 9	50	6
4	53	23	38	17 4	23 49	13	47	24	51	6
5	57	41	59	17 37	25 57	11	47	39	52	5
6	15 1	16 0	19 19	18 9	26 44	9	47	54	54	5
7	15 5	16 17	19 39	18 41	26 2	3 7	9 46	3 9	11 55	20 5
8	9	35	57	19 12	23 51	5	46	24	56	5
9	13	52	20 16	19 42	20 15	3	45	39	58	4
10	17	17 9	34	20 10	15 27	1	44	54	59	4
11	21	26	52	20 38	9 42	2 59	44	4 9	12 1	4
12	25	43	21 9	21 4	3 20	57	43	24	2	4
13	29	59	25	21 30	3 N 17	55	42	39	3	
14	15 33	18 14	21 40	21 54	9 46	2 53	9 41	4 54	12 4	20 3
15	37	30	55	22 19	15 42	51	40	5 9	5	3
16	41	45	22 10	22 41	20 39	49	39	24	6	3
17	45	19 0	23	23 2	24 16	47	37	38	7	2
18	48	14	36	23 21	26 18	45	36	53	9	2
19	52	29	49	23 41	26 41	43	35	6 8	10	2
20	56	42	23 0	24 0	25 33	41	33	23	11	2
21	16 0	56	23 11	24 16	23 7	2 40	9 32	6 37	12 12	20 1
22	4	20 9	22	24 31	19 40	39	30	52	13	1
23	8	22	32	24 45	15 28	37	28	7 6	15	1
24	12	34	40	24 57	10 43	35	27	21	16	1
25	16	46	49	25 9	5 37	33	25	35	17	0
26	20	57	56	25 19	0 21	32	23	7 50	18	0
27	24	21 9	24 3	25 28	4 S 59	30	21	8 4	19	0
28	16 28	21 19	24 9	25 35	10 11	2 29	9 19	8 18	12 20	19 59
29	32	30	14	25 41	15 5	27	17	32	21	59
30	16 36	21 40	24 19	25 46	19 26	2 26	9 15	8 46	12 22	19 59

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1891

Eclipse of Sun December 1st in ♐ 9° 2′

New Moon December 31st in ♑ 9° 34′

Longitude of the Planets

D	☉	☿	♄	☽	♃	♅	♂	♆	♇	☊
	° ♐′	° ♐′	° ♐′	° ♐′	° ♍′	° ♓′	° ♏′	° ♍′	° ♊′	° ♉′
1	9 2	27 40	27 10	9 10	28 48	9 27	25 43	3 59	7 R37	25 30
2	10 3	28 55	28 34	21 58	52	32	26 21	4 2	35	27
3	11 4	0♑10	29 57	5 ♑ 1	56	38	26 59	5	33	24
4	12 5	1 25	1♑18	18 17	59	44	27 37	9	32	20
5	13 6	2 40	2 38	1 ♒46	29 3	50	28 15	12	30	17
—6	14 7	3 55	3 56	15 26	6	56	28 53	15	28	14
7	15 8	5 10	5 12	29 18	29 10	10 3	29 31	4 18	7 26	25 11
8	16 9	6 25	6 26	13♓19	13	9	0 ♏ 9	21	25	8
9	17 10	7 40	7 36	27 28	17	16	0 47	24	23	5
10	18 11	8 55	8 44	11♈43	20	23	1 25	27	21	2
11	19 12	10 10	9 47	26 2	24	30	2 3	30	20	24 58
12	20 13	11 25	10 46	10♉22	27	37	2 41	33	18	55
—13	21 14	12 40	11 40	24 39	29	45	3 19	36	16	52
14	22 15	13 55	12 28	8 ♊49	29 32	10 52	3 57	4 39	7 15	24 49
15	23 16	15 10	13 10	22 48	36	11 0	4 35	42	13	46
16	24 17	16 24	13 44	6 ♋32	38	8	5 13	44	12	42
17	25 18	17 39	14 10	19 57	40	16	5 51	47	10	39
18	26 19	18 54	14 27	3 ♌ 3	43	24	6 29	50	8	36
19	27 20	20 9	14 33	15 48	45	32	7 7	52	7	33
—20	28 21	21 24	14R29	28 15	47	41	7 45	55	5	30
21	29 22	22 39	14 13	10♍26	29 49	11 49	8 23	4 58	7 4	24 27
22	0♑23	23 53	13 46	22 25	51	58	9 1	5 0	2	23
23	1 24	25 8	13 7	4 ♎17	53	12 7	9 39	3	1	20
24	2 26	26 23	12 17	16 7	55	16	10 16	5	6 59	17
25	3 27	27 38	11 16	28 0	57	25	10 54	7	58	14
26	4 28	28 52	10 7	10♏ 1	59	35	11 32	10	56	10
—27	5 29	0 ♒ 7	8 51	22 14	0 ♎ 0	44	12 10	12	55	7
28	6 30	1 22	7 30	4 ♐43	0 1	12 54	12 48	5 15	6 53	24 4
29	7 31	2 37	6 9	17 31	2	13 3	13 26	17	52	1
30	8 33	3 51	4 48	0 ♑39	4	13	14 4	19	51	23 58
31	9 34	5 6	3 31	14 6	0 5	13 23	14 42	5 21	6 49	23 55

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1891

Full Moon December 15th in ♊ 23° 16′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	S	S	S	N	S	S	S	N
1	16 40	21 49	24 23	25 49	23 0	2 24	9 13	9 0	12 23	19 58
2	44	58	26	49	25 30	23	10	14	25	58
3	48	22 7	28	49	26 40	22	8	28	26	58
4	52	15	30	49	26 19	20	6	42	27	58
5	56	23	31	46	24 27	19	3	56	28	57
6	59	31	30	42	21 9	18	0	10 10	29	57
7	17 3	22 38	24 30	25 37	16 38	2 17	8 58	10 23	12 30	19 57
8	7	44	29	30	11 12	16	55	37	31	57
9	11	50	27	22	5 8	15	52	51	32	56
10	15	56	24	12	1 N15	14	50	11 04	33	56
11	19	23 1	20	1	7 36	13	47	17	34	56
12	23	6	15	24 48	13 35	12	44	30	35	56
13	27	10	11	36	18 49	11	41	44	36	55
14	17 31	23 14	24 6	24 22	22 55	2 10	8 38	11 57	12 37	19 55
15	35	17	23 58	8	25 36	9	35	12 10	38	55
16	39	20	51	23 53	26 41	8	31	23	39	55
17	43	22	43	37	26 9	8	28	36	39	54
18	47	24	34	21	24 9	6	25	49	40	54
19	51	26	24	4	21 0	6	22	13 2	41	54
20	55	27	18	22 47	16 58	5	18	14	42	54
21	17 59	23 27	23 3	22 31	12 19	2 5	8 15	13 27	12 43	19 53
22	18 3	27	22 51	15	7 17	4	11	39	44	53
23	6	27	39	0	2 2	4	8	52	45	53
24	10	26	26	21 46	3 s17	3	4	14 4	45	53
25	14	25	13	31	8 30	3	0	16	46	53
26	18	23	21 58	17	13 29	2	7 57	28	47	52
27	22	20	43	21 4	18 2	2	53	40	48	52
28	18 26	23 18	21 28	20 53	21 54	2 2	7 49	14 52	12 49	19 52
29	30	14	11	42	24 47	1	45	15 4	50	52
30	34	11	20 54	33	26 25	1	41	15	50	51
31	18 38	23 7	20 37	20 25	26 33	2 1	7 37	15 27	12 51	19 51

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	2.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	35	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5692	71	25	40	04	06
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3395	16

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

P.	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	83
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	10	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	56	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06
59	68	46	46	65	02	53	18	95	83	81	87	03

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1892

New Moon January 29th in ♒ 9° 5′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	°♑′	°♑′	°♒′	°♑′	°♓′	°♐′	°♏′	°♏′	°♊′	°♉
1	10 35	2 R19	6 20	27 50	0 6	13 34	15 20	5 24	6 R48	23 52
2	11 36	1 16	7 36	11♒47	6 44	15 59	26	46	48
3	12 37	0 20	8 50	25 54	7 54	16 36	27	45	45
4	13 38	29 ♐ 35	10	♓ 6	8	14 5	17 15	29	44	42
5	14 40	29 1	11 20	24 18	8	15	17 52	31	43	39
6	15 41	28 37	12 33	8 ♈29	8	25	18 29	33	41	36
7	16 42	28 21	13 49	22 36	0 9	14 37	19 8	5 35	6 40	23 33
8	17 43	28 17	15 4	6 ♉38	9	47	19 45	36	39	29
9	18 44	28♑20	16 18	20 34	9	58	20 22	38	38	26
10	19 45	28 32	17 32	4 ♊23	R 9	15 9	21 0	40	37	23
11	20 46	28 50	18 48	18 5	9	20	21 38	42	35	20
12	21 48	29 17	20 2	1 ♋38	8	32	22 16	43	34	17
13	22 49	29 51	21 15	15 0	8	44	22 53	45	33	14
14	23 50	0♑27	22 31	28 8	0 8	15 55	23 31	5 46	6 32	23 10
15	24 51	1 10	23 44	11♌ 2	7	16 8	24 9	47	31	7
16	25 52	1 59	24 58	23 41	6	18	24 47	49	30	4
17	26 53	2 49	26 13	6 ♍ 4	6	30	25 23	50	29	1
18	27 54	3 44	27 26	18 14	5	41	26 3	52	28	22 57
19	28 55	4 42	28 40	0 ♎13	4	54	26 40	53	27	54
20	29 56	5 43	29 55	12 4	3	17 6	27 17	54	26	51
21	0♒57	6 48	1 ♐8	23 53	0 2	17 17	27 56	5 55	6 25	22 48
22	1 58	8 0	2 23	7 55	5 ♍44	0	30	28 33	56	25	45
23	2 59	9 19	3 37	3 17	44	29♍59	43	29 11	57	24	42
24	4 0	10 39	4 51	14 29	57	57	56	29 48	58	23	38
25	5 1	11 59	6 3	28 12 ♐28	56	18 8	0 ♐26	59	23	35
26	6 2	13 18	7 18	12 41	25 22	54	20	1 3	6 0	22	32
27	7 3	13 32	8 32	13 58	8 ♑41	52	33	1 41	1	21	29
28	8 4	13 46	9 46	15 14	22 25	29 50	18 45	2 17	6 1	6 20	22 26
29	9 5	13 59	11 0	16 34	6 ♒32	47	59	2 55	2	20	22
30	10 6	12 12	12 17	17 53	20 57	45	19 10	3 32	3	19	19
31	11 7	13 27	19 16	5 ♐32	29 42	19 23	4 11	6 3	6 19	22 16

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1892

Full Moon January 14th in ♋ 23° 50′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	S	S	S	N	S	S	S	N
1	18 42	23 2	20 19	20 19	25 4	2 1	7 33	15 39	12 52	19 51
2	46	22 57	20 0	16	22 3	1	29	50	53	51
3	50	51	19 41	13	17 43	1	25	16 1	53	51
4	54	45	19 21	12	12 22	1	21	12	54	51
5	58	39	19 1	14	6 22	1	17	23	54	51
6	19 2	32	18 39	18	0 3	1	13	34	55	51
7	19 6	22 25	18 19	20 21	6 N15	2 2	7 8	16 45	12 55	19 50
8	10	17	17 57	27	12 13	2	4	56	56	50
9	13	9	17 35	34	17 31	2	6 59	17 6	56	50
10	17	0	17 12	41	21 52	2	55	17	57	50
11	21	21 51	16 49	50	24 55	3	51	27	57	50
12	25	41	16 25	59	26 30	3	46	37	58	50
13	29	31	16 1	21 8	26 30	3	41	47	58	49
14	19 33	21 21	15 36	21 18	25 0	2 3	6 37	17 57	12 59	19 49
15	37	10	15 11	27	22 12	4	32	18 7	59	49
16	41	20 59	14 45	36	18 24	5	28	17	13 0	49
17	45	48	14 20	45	13 53	5	23	26	0	49
18	49	36	13 53	53	8 54	6	18	36	1	49
19	53	23	13 27	22 1	3 39	7	13	45	1	49
20	57	10	13 0	8	1 S40	7	9	54	2	49
21	20 1	19 57	12 33	22 15	6 56	2 8	6 4	19 3	13 2	19 48
22	5	44	12 5	21	11 58	9	5 59	12	2	48
23	9	30	11 37	26	16 38	10	54	21	3	48
24	13	16	11 8	29	20 42	10	49	30	3	48
25	17	1	10 40	33	23 56	11	44	38	3	48
26	21	18 46	10 11	35	26 3	12	39	46	3	48
27	24	31	9 43	37	26 45	13	34	54	4	48
28	20 28	18 16	9 13	22 37	25 51	2 14	5 29	20 2	13 4	19 48
29	32	0	8 44	36	23 18	15	24	10	4	48
30	36	17 43	8 14	33	19 16	17	18	18	4	48
31	20 40	17 27	7 44	22 30	14 2	2 18	5 13	20 26	13 4	19 48

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1892

New Moon February 28th in ♓ 9° 24′

Longitude of the Planets

D	☉	☿	♂	☽	♄	♅	♃	♆	♇	♁
	° ♒′	° ♓′	° ♑′	° ♓′	° ♏′	° ♓′	° ♐′	° ♍′	° ♊′	° ♉′
1	12 8	14 40	20 37	20 12	29R40	19 37	4 47	6 3	6 R18	22 13
2	13 9	15 54	22 1	4 ♈48	38	49	5 26	3	18	10
3	14 10	17 6	23 24	19 14	36	20 3	6 2	4	18	7
4	15 11	18 21	24 51	3 ♉28	34	15	6 40	4	17	3
5	16 12	19 34	26 17	17 28	31	30	7 17	4	17	0
6	17 12	20 47	27 46	1 ♊14	28	44	7 55	5	17	21 57
7	18 13	22 0	29 13	14 46	29 24	20 56	8 31	6 5	6 16	21 54
8	19 14	23 13	0♒41	28 7	21	21 10	9 9	5	16	51
9	20 15	24 27	2 12	11♋16	19	24	9 45	5	16	48
10	21 15	25 40	3 43	24 14	16	37	10 23	R 5	16	44
11	22 16	26 52	5 15	7 ♌ 2	13	51	11 0	5	15	41
12	23 16	28 6	6 48	19 38	9	22 4	11 37	5	15	38
13	24 17	29 20	8 21	2 ♍ 4	6	18	12 13	4	15	35
14	25 18	0♈30	9 56	14 18	29 3	22 30	12 51	6 4	6 15	21 32
15	26 18	1 44	11 31	26 22	28 59	45	13 28	4	15	29
16	27 19	2 56	13 7	8 ♎17	55	59	14 5	3	15	25
17	28 19	4 9	14 44	20 7	51	23 12	14 43	3	15	22
18	29 20	5 21	16 22	1 ♏54	47	27	15 19	3	15	19
19	0♓20	6 34	18 1	13 44	44	41	15 56	2	D15	16
20	1 21	7 46	19 40	25 42	40	56	16 32	2	16	13
21	2 21	8 57	21 22	7 ♐52	28 36	24 9	17 11	6 1	6 16	21 10
22	3 22	10 9	23 4	20 21	33	23	17 47	0	16	6
23	4 22	11 22	24 46	3 ♑13	28	37	18 23	0	16	3
24	5 22	12 34	26 31	16 32	23	52	19 0	5 59	17	0
25	6 23	13 46	28 15	0♒20	20	25 6	19 36	58	17	20 57
26	7 23	14 58	0♓1	14 36	16	19	20 14	57	17	53
27	8 23	16 10	1 47	29 16	11	34	20 51	56	18	50
28	9 24	17 21	3 36	14♓12	28 6	25 49	21 27	5 55	6 18	20 47
29	10 24	18 32	5 24	29 15	28 2	26 3	22 2	5 54	6 18	20 44

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Ephemeris of the Planets' Places

Calculated for Mean Noon at Greenwich

February, 1892

Full Moon February 12th in ♌ 23° 16'

Declination of the Planets

D	S T	☉	☿	♀	☽	♄	♅	♂	♃	♆
		S	S	S	S	N	S	S	S	N
1	20 44	17 10	7 14	22 26	7 58	2 19	5 8	20 33	13 4	19 48
2	48	16 53	6 43	22 19	1 30	20	3	40	4	48
3	52	35	6 13	22 13	4 N59	21	4 58	48	4	48
4	56	18	5 42	22 5	11 9	23	53	55	5	48
5	21 0	15 59	5 12	21 55	16 39	24	47	21 2	5	48
6	4	41	4 39	21 43	21 11	26	42	8	5	48
7	21 8	15 23	4 10	21 32	24 30	2 27	4 37	21 15	13 5	19 48
8	12	4	3 35	21 18	26 24	28	31	22	5	48
9	16	14 45	3 7	21 4	26 40	29	26	28	5	48
10	20	25	2 36	20 48	25 39	31	20	34	5	48
11	24	6	2 5	20 31	23 12	32	15	40	4	48
12	28	13 46	1 33	20 12	19 40	34	9	46	4	48
13	31	26	1 2	19 52	15 19	35	4	52	4	48
14	21 35	13 6	0 32	19 30	10 25	2 37	3 59	21 57	13 4	19 48
15	39	12 45	0 N 1	19 8	5 11	38	53	22 3	4	48
16	43	25	0 33	18 44	0 S10	40	48	8	4	48
17	47	4	1 4	18 18	5 30	42	42	13	4	48
18	51	11 43	1 35	17 47	10 38	43	36	18	3	48
19	55	21	2 7	17 23	15 24	45	31	23	3	48
20	59	0	2 39	16 53	19 39	47	26	28	3	48
21	22 3	10 38	3 10	16 23	23 8	2 49	3 20	22 32	13 3	19 49
22	7	17	3 42	15 50	25 37	50	14	36	3	49
23	11	9 55	4 13	15 17	26 51	52	8	40	2	49
24	15	33	4 44	14 41	26 36	54	2	44	2	49
25	19	10	5 15	14 5	24 43	56	2 57	48	2	49
26	23	8 48	5 46	13 29	21 15	57	51	51	1	49
27	27	26	6 17	12 48	16 23	59	46	55	1	49
28	22 31	8 3	6 48	12 8	10 27	3 1	2 40	22 59	13 1	19 49
29	22 35	7 40	7 18	11 26	3 52	3 3	2 34	23 2	13 0	19 49

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EPHEMERIS OF THE PLANETS' PLACES

March, 1892

Calculated for Mean Noon at Greenwich

New Moon March 28th in ♈ 8° 16′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	°♓′	°♈′	°♓′	°♈′	°♑′	°♓′	°♐′	°♍	°♊′	°♉′
1	11 24	19 44	7 15	14 15	27℞58	26 16	22 39	5 ℞53	6 19	20 41
2	12 24	20 55	9 5	29 4	53	30	23 16	52	20	38
3	13 24	22 7	10 57	13♉36	49	45	23 52	51	20	35
4	14 24	23 18	12 51	27 47	45	27 0	24 29	49	21	31
5	15 24	24 28	14 43	11♊37	40	14	25 6	48	22	28
6	16 24	25 40	16 38	25 7	36	28	25 41	47	22	25
7	17 24	26 50	18 34	8♋18	27 31	27 42	26 17	5 46	6 23	20 22
8	18 24	28 1	20 31	21 13	25	57	26 53	44	24	19
9	19 24	29 1	22 28	3♌55	21	28 12	27 30	43	24	16
10	20 24	0♉21	24 26	16 25	17	27	28 5	41	25	12
11	21 24	1 32	26 24	28 45	13	40	28 42	39	26	9
12	22 24	2 42	28 23	10♍56	8	55	29 18	38	27	6
13	23 23	3 52	0♈22	22 59	3	29 10	29 53	37	27	3
14	24 23	5 2	2 19	4♎55	26 58	29 24	0♌29	5 35	6 28	19 59
15	25 23	6 11	4 18	16 47	53	38 1	5	33	29	56
16	26 23	7 21	6 17	28 35	49	53 1	40	31	30	53
17	27 22	8 31	8 14	10♏23	45	0♈8 2	16	29	31	50
18	28 22	9 40	10 10	22 14	39	22	2 52	28	32	47
19	29 21	10 48	12 4	4♐12	33	37	3 28	26	34	44
20	0♈21	11 58	13 55	16 21	30	50	4 3	24	35	40
21	1 20	13 7	15 44	28 48	26 25	1 6	4 38	5 22	6 36	19 37
22	2 20	14 17	17 30	11♑36	20	21	5 13	20	37	34
23	3 19	15 24	19 13	24 49	14	35	5 49	18	38	31
24	4 19	16 33	20 53	8♒31	12	50	6 24	16	39	28
25	5 18	17 41	22 28	22 42	6	2 3	6 58	14	40	25
26	6 18	18 49	23 58	7♓20	2	19	7 34	12	42	21
27	7 17	19 57	25 24	22 19	25 58	33	8 9	10	43	18
28	8 16	21 5	26 43	7♈31	25 52	2 48	8 43	5 7	6 44	19 15
29	9 16	22 12	27 58	22 45	48	3 2	9 18	5	46	12
30	10 15	23 20	29 6	7♉51	43	16	9 53	3	47	9
31	11 14	24 28	0♉8	22 41	25 39	3 31	10 27	5 0	6 49	19 6

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1892

Full Moon March 13th in ♍ 23° 23′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	N	S	N	N	S	S	S	N
1	22 39	7 17	7 49	10 43	2 55	3 5	2 29	23 5	13 0	19 50
2	42	6 55	8 19	9 58	9 31	7	23	8	0	50
3	46	6 32	8 49	9 13	15 27	9	17	11	12 59	50
4	50	6 8	9 19	8 25	20 25	11	11	14	59	50
5	54	5 45	9 48	7 37	24 7	13	6	16	59	50
6	58	5 22	10 18	6 42	26 21	15	0	19	58	50
7	23 2	4 59	10 47	5 57	27 2	3 16	1 54	23 21	12 58	19 51
8	6	4 35	11 16	5 5	26 13	18	48	22	57	51
9	10	4 12	11 45	5 13	24 3	20	43	24	57	51
10	14	3 48	12 13	3 19	20 45	22	37	26	56	51
11	18	3 25	12 41	2 25	16 36	24	31	28	56	51
12	22	3 1	13 9	1 29	11 49	26	25	29	55	51
13	26	2 37	13 37	0 34	6 38	28	20	31	55	52
14	23 30	2 14	14 4	0 N 22	1 15	3 30	1 14	23 32	12 54	19 52
15	34	1 50	14 31	1 18	4 S 8	32	8	33	53	52
16	38	1 26	14 58	2 15	9 23	34	2	34	53	52
17	42	1 3	15 24	3 11	14 18	36	0 56	34	52	53
18	46	0 39	15 50	4 7	18 43	38	50	34	51	53
19	49	0 15	16 16	5 3	22 25	40	45	35	51	53
20	53	0 N 9	16 41	5 57	25 12	41	39	35	50	53
21	23 57	0 32	17 6	6 51	26 50	3 43	0 33	23 36	12 50	19 54
22	0 1	0 56	17 30	7 43	27 6	45	28	36	49	54
23	5	1 20	17 54	8 34	25 51	47	22	35	48	54
24	9	1 43	18 14	9 22	23 3	49	5	35	47	54
25	13	2 7	18 41	10 10	18 49	51	10	35	47	55
26	17	2 30	19 3	10 53	13 20	53	5	34	46	55
27	21	2 54	19 26	11 36	6 57	55	N 1	34	45	55
28	0 25	3 17	19 48	12 16	0 5	3 56	0 7	23 33	12 45	19 55
29	29	3 40	20 9	12 52	6 N50	58	13	32	44	56
30	33	4 4	20 30	13 22	13 19	4 0	18	31	44	56
31	0 37	4 27	20 51	13 56	18 55	4 2	0 24	23 30	12 43	19 56

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich,

April, 1892.

Eclipse of Sun April 26th in ♉ 6° 41′.

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♈ ′	° ♉ ′	° ♉ ′	° ♊ ′	° ♏ ′	° ♈ ′	° ♑ ′	° ♍ ′	° ♊ ′	° ♉ ′
1	12 13	25 34	1 4	7 9	25R33	3 45	11 2	4 R58	6 50	19 2
2	13 12	26 41	1 54	21 11	30	4 0	11 36	56	51	18 59
3	14 11	27 47	2 36	4 ♋48	26	15	12 10	54	53	56
4	15 10	28 54	3 12	18 2	21	29	12 43	52	55	53
5	16 9	0 ♊ 0	3 42	0 ♌55	17	43	13 18	49	57	50
6	17 8	1 5	4 4	13 29	14	58	13 52	47	58	47
7	18 7	2 11	4 18	25 50	25 9	5 12	14 25	4 44	6 59	18 43
8	19 6	3 17	4 28	7 ♍59	4	26	15 0	41	7 1	40
9	20 5	4 21	4 30	19 59	0	41	15 33	39	3	37
10	21 4	5 27	4 R26	1 ♎54	24 56	55	16 7	37	4	34
11	22 3	6 32	4 16	13 44	52	6 9	16 41	34	6	31
12	23 1	7 36	3 59	25 33	49	24	17 14	32	7	27
13	24 0	8 40	3 37	7 ♏22	45	38	17 47	28	9	24
14	24 59	9 44	3 12	19 13	24 41	6 51	18 20	4 26	7 11	18 21
15	25 57	10 48	2 41	1 ♐10	36	7 5	18 53	24	13	18
16	26 56	11 52	2 7	13 14	33	20	19 26	22	15	15
17	27 55	12 55	1 29	25 29	30	33	19 59	19	16	12
18	28 53	13 57	0 51	7 ♑58	26	47	20 31	17	18	8
19	29 52	14 59	0 9	20 46	23	8 2	21 3	14	20	5
20	0 ♉ 50	16 2	29 ♈ 27	3 ♒56	20	16	21 35	12	22	2
21	1 49	17 3	28 45	17 30	24 17	8 30	22 6	4 8	7 24	17 59
22	2 47	18 5	28 5	1 ♓30	13	44	22 39	6	26	56
23	3 46	19 6	27 25	15 55	10	57	23 11	4	28	53
24	4 44	20 6	26 48	0 ♈42	7	9 12	23 43	2	30	49
25	5 43	21 7	26 14	15 45	3	27	24 14	3 59	32	46
26	6 41	22 7	25 43	0 ♉55	1	40	24 45	56	34	43
27	7 39	23 7	25 15	16 3	23 59	53	25 15	54	36	40
28	8 37	24 6	24 52	1 ♊ 0	23 56	10 7	25 47	3 52	7 38	17 37
29	9 36	25 5	24 32	15 38	53	20	26 18	49	40	34
30	10 34	26 3	24 18	29 52	23 51	10 35	26 48	3 46	7 42	17 30

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1892

Full Moon April 12th in ♎ 23° 1′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ N	♄ N	♃ N	♂ S	♅ S	♆ N
1	0 41	4 50	21 10	14 24	23 15	4 3	0 30	23 29	12 42	19 57
2	45	5 13	30	46	26 3	5	35	28	41	57
3	49	5 36	49	15 8	27 12	7	41	26	41	57
4	53	5 59	22 7	26	26 45	9	47	24	40	57
5	57	6 22	25	39	24 51	10	53	23	40	57
6	1 0	6 44	42	48	21 46	11	58	21	38	57
7	1 4	7 7	22 59	15 56	17 46	4 13	1 4	23 19	12 37	19 58
8	8	7 29	23 16	57	13 6	15	9	17	36	58
9	12	7 52	31	59	8 0	17	15	15	35	58
10	16	8 14	46	55	2 39	18	21	13	35	59
11	20	8 36	24 1	47	2 s46	20	26	10	34	59
12	24	8 58	15	33	8 6	21	32	7	33	59
13	28	9 19	28	22	13 9	22	38	5	32	20 0
14	1 32	9 41	24 40	15 3	17 44	4 23	1 43	23 2	12 31	20 0
15	36	10 2	53	14 44	21 40	25	49	0	30	1
16	40	10 23	25 5	22	24 43	27	54	22 57	30	1
17	44	10 44	16	13 57	26 40	28	2 0	55	29	1
18	48	11 5	26	29	27 18	29	5	52	28	2
19	52	11 26	37	1	26 31	30	11	49	27	2
20	56	11 47	46	12 32	24 16	32	16	45	26	2
21	2 0	12 7	25 55	12 2	20 37	4 33	2 22	22 42	12 26	20 3
22	4	12 27	26 3	11 32	15 43	34	27	39	25	3
23	7	12 47	10	2	9 49	35	32	36	24	4
24	11	13 7	16	10 33	3 14	36	37	32	23	4
25	15	13 26	23	4	3 N40	37	43	29	22	5
26	19	13 45	28	9 38	10 25	38	48	25	21	5
27	23	14 5	34	12	16 34	39	54	22	20	5
28	2 27	14 23	26 39	8 49	21 38	4 40	2 59	22 19	12 20	20 5
29	31	14 42	43	27	25 12	41	3 4	15	19	6
30	2 35	15 0	26 46	8 8	27 4	4 42	3 9	22 12	12 18	20 6

Fellowship Press, Oceanside, Calif.

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1892

Eclipse of Sun May 26th in ♊ 5° 38′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♉ ′	° ♊ ′	° ♈ ′	° ♌ ′	° ♏ ′	° ♈ ′	° ♑ ′	° ♏ ′	° ♊ ′	° ♉ ′
1	11 32	27 1	24R 9	13 40	23R48	10 47	27 19	3 R44	7 44	17 27
2	12 30	27 59	24 4	27 1	46	11 2	27 49	41	46	24
3	13 28	28 56	24 3	9 ♌58	44	14	28 19	38	48	21
4	14 27	29 53	24D 7	22 34	42	28	28 48	36	51	17
5	15 25	0♋48	24 17	4 ♍52	40	42	29 18	34	52	14
6	16 23	1 43	24 31	16 56	38	54	29 48	31	54	11
7	17 21	2 38	24 48	28 52	23 36	12 7	0♒16	3 29	7 57	17 8
8	18 19	3 33	25 12	10♎42	35	21	0 45	27	59	5
9	19 17	4 25	25 39	22 30	33	33	1 14	24	8 1	2
10	20 14	5 20	26 10	4 ♎19	31	46	1 42	22	3	16 58
11	21 12	6 12	26 45	16 12	29	59	2 10	19	5	55
12	22 10	7 4	27 24	28 10	28	13 12	2 38	16	7	52
13	23 8	7 55	28 7	10♐17	27	25	3 5	14	9	49
14	24 6	8 45	28 53	22 33	23 26	13 37	3 32	3 12	8 12	16 46
15	25 4	9 35	29 44	5 ♑1	24	50	4 0	10	14	43
16	26 1	10 25	0♉37	17 42	23	14 3	4 27	7	16	39
17	26 59	11 12	1 33	0 ♒38	23	14	4 54	5	18	36
18	27 57	12 0	2 32	13 52	22	28	5 19	3	20	33
19	28 55	12 46	3 36	27 24	22	40	5 45	1	22	30
20	29 52	13 32	4 42	11♓15	21	51	6 11	2 59	25	27
21	0♊50	14 18	5 51	25 26	23 21	15 5	6 36	2 57	8 27	16 24
22	1 48	15 1	7 3	9 ♈55	20	16	7 2	54	29	20
23	2 45	15 44	8 17	24 38	20	29	7 26	52	31	17
24	3 43	16 26	9 35	9 ♉30	19	41	7 50	50	34	14
25	4 41	17 7	10 54	24 24	19	53	8 14	48	36	11
26	5 39	17 47	12 17	9 ♊12	19	16 4	8 37	46	38	8
27	6 37	18 26	13 42	23 47	19	15	9 0	44	40	5
28	7 35	19 4	15 10	8 ♋3	23 20	16 28	9 23	2 42	8 43	16 2
29	8 34	19 41	16 41	21 55	20	40	9 44	40	45	15 58
30	9 32	20 18	18 13	5 ♌22	21	51	10 7	38	47	55
	10 34	26		24	22	21 17	2 10	28 2	36 8	49 15	52

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1892

Eclipse of Moon May 11th in ♏ 21° 12′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ N	♄ N	♃ N	♂ S	♅ S	♆ N
1	2 39	15 18	26 49	7 52	27 9	4 43	3 15	22 8	12 17	20 6
2	43	15 36	51	39	25 39	43	20	4	16	6
3	47	15 54	53	26	22 49	44	25	1	15	7
4	51	16 11	54	17	18 59	45	30	21 57	14	7
5	55	16 28	54	11	14 25	46	35	53	13	8
6	59	16 45	53	8	9 23	47	40	49	12	8
7	3 3	17 1	26 53	7 5	4 4	4 47	3 45	21 46	12 12	20 9
8	7	17 18	52	7	1 s21	48	50	42	11	9
9	11	17 34	51	9	6 43	48	55	39	10	9
10	14	17 49	49	15	11 52	48	4 0	35	10	10
11	18	18 4	46	23	16 37	49	5	31	8	10
12	22	18 20	43	34	20 46	49	10	27	7	11
13	26	18 34	40	45	24 5	49	15	24	7	11
14	3 30	18 49	26 36	8 0	26 19	4 49	4 19	21 20	12 6	20 11
15	34	19 3	31	15	27 17	50	24	16	5	12
16	38	19 16	26	33	26 51	50	29	13	5	12
17	42	19 30	20	51	24 59	50	34	9	4	12
18	46	19 43	14	9 13	21 43	50	39	5	3	13
19	50	19 56	8	35	17 15	50	43	2	2	13
20	54	20 8	1	59	11 48	50	48	20 59	1	13
21	3 58	20 20	25 55	10 23	5 37	4 50	4 52	20 55	12 1	20 14
22	4 2	20 32	47	50	1 N 0	50	57	52	0	14
23	6	20 44	39	11 17	7 41	50	5 1	49	0	15
24	10	20 55	31	46	14 1	50	6	45	11 59	15
25	14	21 5	23	12 15	19 32	49	10	42	58	15
26	18	21 16	14	46	23 49	49	15	39	57	16
27	22	21 26	5	13 17	26 28	49	19	36	57	16
28	4 25	21 35	24 56	13 50	27 18	4 49	5 23	20 34	11 56	20 16
29	29	21 44	46	14 22	26 22	49	28	31	56	17
30	33	21 53	36	56	23 55	49	32	28	55	17
31	4 37	22 2	24 26	15 29	20 18	4 48	5 36	20 26	11 55	20 17

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1892

Eclipse of Sun June 24th in ♋ 3° 21′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	♈
	° ♊′	° ♋′	° ♉′	° ♍′	° ♍′	° ♈′	° ♒′	° ♏′	° ♊′	° ♉′
1	11 23	21 21	21 26	1 3	23 22	17 13	10 50	2 ℞35	8 52	15 45
2	12 21	21 51	23 6	13 22	23	24	11 10	33	54	45
3	♋ 18	22 21	24 50	25 26	24	36	11 30	31	56	42
4	14 16	22 49	26 35	7 ♎21	25	47	11 51	30	58	39
5	15 13	23 14	28 23	19 10	26	57	12 9	28	9 1	36
6	16 10	23 40	0♊12	0 ♏58	27	18 8	12 28	26	3	33
7	17 8	24 3	2 6	12 50	23 28	18 19	12 46	2 24	9 5	15 30
8	18 5	24 25	4 1	24 48	30	29	13 4	23	7	26
9	19 2	24 44	5 57	6 ♐56	31	40	13 22	22	9	23
10	20 0	25 1	7 58	19 16	32	50	13 38	20	12	20
11	20 57	25 17	10 0	1 ♑49	34	19 0	13 54	19	14	17
12	21 54	25 31	12 3	14 36	36	11	14 10	17	16	14
13	22 52	25 43	14 9	27 36	38	21	14 26	16	18	11
14	23 49	25 52	16 16	10♒50	23 40	19 31	14 40	2 15	9 20	15 7
15	24 46	26 0	18 24	24 17	42	40	14 54	14	23	4
16	25 43	26 4	20 34	7 ♓56	44	50	15 7	12	25	1
17	26 41	26 8	22 45	21 48	47	20 0	15 20	11	27	14 58
18	27 38	26℞ 8	24 55	5 ♈51	49	9	15 33	10	29	54
19	28 35	26 5	27 7	20 4	51	19	15 44	9	31	51
20	29 32	26 2	29 18	4 ♉27	53	28	15 55	8	34	48
21	0♋30	25 56	1♋30	18 55	23 56	20 37	16 6	2 7	9 36	14 45
22	1 27	25 47	3 40	3 ♊26	59	46	16 15	6	38	42
23	2 24	25 36	5 51	17 53	24 2	54	16 24	6	40	39
24	3 21	25 23	8 1	2 ♋12	5	21 3	16 32	5	42	35
25	4 19	25 6	10 9	16 17	8	12	16 39	4	44	32
26	5 16	24 48	12 16	0 ♌ 3	11	20	16 46	3	46	29
27	6 13	24 28	14 20	13 27	14	26	16 52	3	48	26
28	7 10	24 5	16 25	26 28	24 18	21 37	16 57	2 2	9 50	14 23
29	8 7	23 41	18 27	9 ♍ 7	21	45	17 2	1	52	20
30	9 5	23 13	20 27	21 27	24 24	21 54	17 6	2 1	9 54	14 16

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1892

Full Moon June 10th in ♐ 20° 0′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		N	N	N	N	N	N	S	S	N
1	4 41	22 10	24 16	16 3	15 52	4 48	5 40	20 23	11 54	20 18
2	45	17	5	16 37	10 52	47	44	21	53	18
3	49	25	23 55	17 11	5 35	47	49	19	53	19
4	53	32	44	17 45	0 9	46	53	17	52	19
5	57	38	33	18 20	5 S15	46	57	15	52	19
6	5 1	44	22	18 54	10 28	45	6 0	13	51	20
7	5 5	22 50	23 11	19 27	15 21	4 44	6 4	20 11	11 51	20 20
8	9	55	0	19 59	19 41	43	8	10	50	20
9	13	23 0	22 49	20 31	23 15	43	12	9	50	20
10	17	5	37	21 2	25 49	42	16	8	49	21
11	21	9	26	21 32	27 8	41	19	7	49	21
12	25	12	14	21 59	27 2	40	23	6	48	21
13	29	16	3	22 27	25 28	39	27	5	48	22
14	5 32	23 19	21 52	22 51	22 29	4 38	6 30	20 5	11 47	20 22
15	36	21	41	23 14	18 16	37	34	4	47	22
16	40	23	29	23 35	13 4	36	37	4	47	23
17	44	25	18	23 53	7 8	35	41	5	46	23
18	48	26	7	24 37	0 46	34	44	5	46	23
19	52	27	20 56	24 22	5 N44	33	47	5	46	23
20	56	27	45	24 31	12 1	32	50	6	45	23
21	6 0	23 27	20 34	24 40	17 41	4 30	6 54	20 7	11 45	20 24
22	4	27	23	24 44	22 21	29	57	8	45	24
23	8	26	12	24 46	25 36	28	7 0	10	45	24
24	12	25	2	24 44	27 8	27	3	12	44	25
25	16	23	19 51	24 42	26 53	25	6	13	44	25
26	20	21	41	24 34	24 58	23	9	14	44	25
27	24	19	31	24 26	21 42	22	12	15	43	25
28	6 28	23 16	19 21	24 15	17 26	4 21	7 15	20 20	11 43	20 26
29	32	12	11	24 1	12 30	19	18	23	43	26
30	6 36	23 9	19 2	23 45	7 12	4 18	7 21	20 26	11 43	20 26

Fellowship Press, Oceanside, Calif.

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1892

New Moon July 23rd in ♌ 1° 1′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♃	♆	♇
	° ♋′	° ♋′	° ♋′	° ♎′	° ♒′	° ♈′	° ♐′	° ♍′	° ♊′	° ♑′
1	10 2	22R43	22 26	3 32	24 28	22 0	17 9	2 R 0	9 56	14 13
2	10 59	22 14	24 21	15 27	31	7	11	0	58	10
3	11 56	21 42	26 17	27 16	34	15	13	0	10 0	7
4	12 53	21 7	28 10	9 ♍ 5	39	23	14	0	2	4
5	13 51	20 33	0 ♌ 1	21 0	43	31	14	1 59	4	1
6	14 48	19 58	1 49	3 ♐ 4	47	37	R13	59	6	13 57
7	15 45	19 21	3 36	15 21	24 51	22 44	17 11	1 59	10 8	13 54
8	16 42	18 44	5 21	27 54	54	51	10	59	10	51
9	17 39	18 7	7 4	10♑44	59	57	7	59	12	48
10	18 37	17 29	8 44	23 52	25 3	23 3	3	D59	13	45
11	19 34	16 51	10 23	7 ♒16	7	11	16 59	59	15	42
12	20 31	16 13	12 0	20 54	12	16	54	59	17	38
13	21 28	15 38	13 34	4 ♓42	17	22	48	59	19	35
14	22 25	15 2	15 7	18 39	25 21	23 27	16 42	1 59	10 20	13 32
15	23 23	14 28	16 38	2 ♈41	25	34	34	2 0	22	29
16	24 20	13 54	18 7	16 47	31	38	26	0	24	25
17	25 17	13 23	19 34	0 ♉54	35	44	18	1	25	22
18	26 14	12 53	20 58	15 3	40	48	8	1	27	19
19	27 12	12 25	22 20	29 12	46	54	15 57	2	29	16
20	28 9	11 59	23 41	13♊18	50	58	47	2	31	13
21	29 6	11 35	24 59	27 21	25 56	24 2	15 35	2 3	10 33	13 10
22	0 ♌ 3	11 12	26 14	11♋15	26 0	7	24	3	34	6
23	1 1	10 53	27 29	24 59	7	11	12	4	36	3
24	1 58	10 35	28 40	8 ♌28	11	15	14 58	4	37	0
25	2 56	10 21	29 49	21 40	16	19	45	5	39	12 57
26	3 53	10 7	0♍54	4 ♍33	21	22	31	6	40	54
27	4 50	9 57	1 59	17 7	27	26	15	7	42	51
28	5 48	9 50	3 0	29 24	26 32	24 30	14 2	2 8	10 43	12 47
29	6 45	9 43	3 59	11♎28	38	33	13 48	9	44	44
30	7 42	9 40	4 54	23 22	44	35	31	10	46	41
31	8 40	9 39	5 46	5 ♍10	26 51	24 38	13 16	2 11	10 48	12 38

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1892

Full Moon July 10th in ♈ 18° 37′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ N	♄ N	♅ N	♂ S	♃ S	♆ N
1	6 40	23 5	18 52	23 27	1 44	4 16	7 23	20 29	11 43	20 26
2	43	0	43	23 7	3 s43	14	26	33	43	26
3	47	22 55	35	22 45	9 1	13	28	36	43	27
4	51	50	26	22 22	14 0	11	31	40	43	27
5	55	44	17	21 57	18 30	10	33	44	43	28
6	59	38	9	21 29	22 18	8	35	48	43	28
7	7 3	22 31	18 1	21 2	25 11	4 6	7 38	20 53	11 43	20 29
8	7	25	17 54	20 33	26 53	4	40	58	43	29
9	11	] 7	47	20 4	27 11	2	42	21 2	43	29
10	15	10	40	19 33	25 59	1	45	7	43	29
11	19	2	33	19 1	23 18	3 59	47	12	43	29
12	23	21 53	27	18 29	19 18	57	49	18	43	29
13	27	44	21	17 56	14 12	55	51	23	43	30
14	7 31	21 35	17 16	17 22	8 21	3 53	7 53	21 29	11 43	20 30
15	35	26	10	16 48	2 1	51	54	35	43	30
16	39	16	5	16 14	4 N26	49	56	41	43	30
17	43	6	1	15 39	10 42	47	58	47	43	30
18	47	20 55	16 57	15 4	16 26	45	59	53	43	30
19	50	44	54	14 29	21 16	43	8 1	22 0	44	31
20	54	33	51	13 54	24 51	40	3	6	44	31
21	7 58	20 21	16 48	13 19	26 53	3 38	8 4	22 12	11 44	20 31
22	8 2	9	46	12 44	27 12	36	5	19	44	31
23	6	19 57	44	12 10	25 49	34	7	26	45	32
24	10	44	43	11 36	22 59	30	8	32	45	32
25	14	31	42	11 1	18 59	28	9	39	45	32
26	18	18	42	10 28	14 12	26	10	45	45	32
27	22	4	41	9 55	8 56	25	11	51	46	33
28	8 26	18 50	16 41	9 22	3 25	3 23	8 12	22 58	11 46	20 33
29	30	36	42	8 50	2 s 7	20	13	23 4	47	33
30	34	21	43	8 19	7 31	17	14	10	47	33
31	38	18 6	16 43	7 49	12 37	3 15	8 15	23 16	11 48	20 33

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1892

New Moon August 22nd in ♌ 29° 47'

Longitude of the Planets

D	☉	♀	☿	☽	♄	♅	♂	♆	♇	⚳
	° ♌′	° ♋′	° ♍′	° ♍′	° ♍′	° ♈′	° ♒′	° ♏′	° ♊′	° ♉′
1	9 37	9 40	6 34	17 0	26 56	24 37	13R 0	2 11	10 48	12 35
2	10 35	9 44	7 21	28 55	27 1	40	12 44	13	50	32
3	11 32	9 49	8 3	11 ♐ 2	6	43	12 27	15	52	29
4	12 30	9 57	8 43	23 24	14	45	12 12	16	53	25
5	13 27	10 7	9 16	6 ♑ 6	19	47	11 56	18	54	22
6	14 25	10 18	9 47	19 10	25	49	11 41	19	55	19
7	15 22	10 34	10 13	2 ♒ 36	27 31	24 50	11 25	2 20	10 56	12 16
8	16 20	10 50	10 35	16 22	38	52	11 8	21	58	12
9	17 17	11 9	10 52	0 ♓ 25	44	53	10 52	23	59	9
10	18 15	11 29	11 3	14 39	50	54	10 38	25	11 0	6
11	19 12	11 49	11R11	29 0	56	55	10 24	27	1	3
12	20 10	12 13	11 13	13 ♈ 22	28 4	55	10 8	28	2	0
13	21 7	12 37	11 9	27 41	10	56	9 54	30	3	11 57
14	22 5	13 5	11 0	11 ♉ 54	28 16	24R56	9 39	2 32	11 4	11 53
15	23 3	13 34	10 44	26 0	22	56	9 27	33	5	50
16	24 1	14 3	10 25	9 ♊ 58	29	55	9 12	35	6	47
17	24 58	14 35	9 59	23 47	35	55	9 0	37	7	44
18	25 56	15 7	9 27	7 ♋ 28	41	54	8 47	39	8	41
19	26 54	15 41	8 52	20 58	49	53	8 36	41	8	38
20	27 52	16 16	8 9	4 ♌ 18	55	52	8 25	43	9	34
21	28 50	16 53	7 24	17 25	29 3	24 50	8 15	2 46	11 10	11 31
22	29 47	17 31	6 34	0 ♍ 18	9	49	8 4	48	11	28
23	0♍45	18 10	5 42	12 57	16	47	7 55	50	12	25
24	1 43	18 50	4 47	25 21	22	45	7 47	52	12	22
25	2 41	19 31	3 53	7 ♎ 31	28	43	7 39	55	13	19
26	3 39	20 14	2 59	19 30	36	40	7 31	57	13	15
27	4 37	20 56	2 5	1 ♏ 21	43	37	7 26	59	14	12
28	5 35	21 40	1 14	13 9	29 50	24 35	7 20	3 1	11 15	11 9
29	6 33	22 25	27	24 57	58	32	7 16	4	15	6
30	7 31	23 11	29♌45	6 ♐ 51	0 ♎ 4	29	7 11	7	16	3
31	8 29	23 58	29 8	18 57	0 11	24 26	7 9	3 9	11 16	11 0

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1892

Full Moon August 8th in ♒ 16° 20′

Declination of the Planets

	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		N	N	N	S	N	N	S	S	N
1	8 42	17 51	16 44	7 20	17 16	3 13	8 15	23 22	11 48	20 34
2	46	17 36	46	6 53	21 18	10	16	28	48	34
3	50	17 20	48	6 26	24 29	8	17	34	49	34
4	54	17 4	50	6 0	26 34	6	17	39	49	34
5	58	16 48	52	5 36	27 21	3	17	44	50	34
6	9 1	16 31	54	5 15	26 39	0	18	49	50	34
7	9 5	16 14	16 56	4 53	24 24	2 58	8 18	23 54	11 51	20 34
8	9	15 57	58	4 35	20 42	55	18	58	51	34
9	13	15 40	17 1	4 18	15 47	53	18	24 2	52	35
10	17	15 22	4	4 3	9 56	50	18	6	53	35
11	21	15 4	7	3 51	3 32	48	18	10	53	35
12	25	14 46	9	3 43	3 N5	46	18	13	54	35
13	29	14 28	12	3 35	9 32	43	18	17	54	35
14	9 33	14 9	17 13	3 32	15 27	2 40	8 17	24 19	11 55	20 35
15	37	13 50	17	3 29	20 30	37	17	22	56	35
16	41	13 31	19	3 31	24 21	35	17	24	56	35
17	45	13 12	21	3 36	26 43	32	17	26	57	35
18	49	12 53	23	3 46	27 25	29	16	27	57	35
19	53	12 33	25	3 56	26 29	26	16	29	58	36
20	57	12 13	27	4 12	24 3	23	15	29	59	36
21	10 1	11 53	17 28	4 29	20 23	2 21	8 14	24 30	12 0	20 36
22	5	11 33	29	4 49	15 48	18	13	30	1	36
23	8	11 13	30	5 13	10 38	15	12	29	1	36
24	12	10 52	30	5 39	5 8	12	11	29	2	36
25	16	10 31	31	6 6	0 S28	10	10	29	3	36
26	20	10 10	31	6 33	5 59	7	9	28	4	36
27	24	9 49	31	7 0	11 14	4	8	27	5	36
28	10 28	9 28	17 31	7 30	16 3	2 1	8 7	24 25	12 6	20 36
29	32	9 7	30	8 8	20 17	1 59	6	23	6	36
30	36	8 45	29	8 38	23 44	56	5	21	7	36
31	10 40	8 23	17 27	9 7	26 12	1 53	8 3	24 19	12 8	20 36

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1892

New Moon September 21st in ♍ 28° 56'

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♆	♇	☊
	° ♍′	° ♎′	° ♌′	° ♑′	° ♒′	° ♈′	° ♏′	° ♍′	° ♊′	° ♉′
1	9 27	24 45	28R37	1 20	0 18	24R22	7 R 7	3 10	11 17	10 56
2	10 26	25 34	28 15	14 4	26	18	5	13	17	53
3	11 24	26 23	28 0	27 13	34	15	D 5	17	17	50
4	12 22	27 13	27 54	10♏48	40	11	6	19	18	47
5	13 20	28 4	27D57	24 48	47	7	6	22	18	44
6	14 18	28 55	28 8	9 ♐ 9	55	2	8	25	18	40
7	15 17	29 47	28 28	23 46	1 1	23 57	7 10	3 28	11 18	10 37
8	16 15	0♎40	28 58	8 ♑32	8	53	15	31	18	34
9	17 13	1 33	29 36	23 18	16	47	19	33	19	31
10	18 12	2 27	0♍22	7 ♒58	23	43	23	36	19	28
11	19 10	3 21	1 16	22 27	31	37	29	39	19	25
12	20 8	4 17	2 17	6 ♓42	38	32	36	42	19	21
13	21 7	5 12	3 26	20 41	45	25	43	45	19	18
14	22 5	6 8	4 41	4 ♈24	1 54	23 20	7 51	3 47	11R19	10 15
15	23 4	7 5	6 3	17 51	2 0	16	8 0	51	19	12
16	24 2	8 3	7 28	1 ♉ 4	7	8	10	54	19	8
17	25 1	9 0	8 58	14 3	15	3	20	57	19	5
18	26 0	9 58	10 33	26 49	22	22 56	31	4 0	18	2
19	26 58	10 56	12 10	9 ♊23	30	49	43	3	18	9 59
20	27 57	11 56	13 50	21 45	38	42	56	6	18	56
21	28 56	12 55	15 34	3 ♋56	2 44	22 36	9 8	4 10	11 18	9 53
22	29 55	13 55	17 19	15 57	52	29	22	13	18	49
23	0♎53	14 56	19 5	27 51	59	22	38	16	17	46
24	1 52	15 56	20 52	9 ♌39	3 7	16	52	20	17	43
25	2 51	16 57	22 40	21 25	15	8	10 8	23	16	40
26	3 50	17 58	24 30	3 ♍12	21	1	24	26	16	37
27	4 49	19 0	26 18	15 6	29	21 54	42	30	15	34
28	5 48	20 2	28 7	27 10	3 36	21 46	10 59	4 34	11 15	9 30
29	6 47	21 4	29 56	9 ♎31	44	38	11 17	37	14	27
30	7 46	22 7	1♏44	22 12	3 52	21 30	11 37	4 40	11 14	9 24

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1892

Full Moon September 6th in ♓ 14° 18′

Declination of the Planets

☽	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		N	N	N	S	N	N	S	S	N
1	10 44	8 2	17 25	9 35	27 26	1 50	8 1	24 16	12 9	20 36
2	48	7 40	23	9 59	27 16	47	8 0	12	10	36
3	52	7 18	20	10 23	25 36	44	7 58	9	11	36
4	56	6 55	17	10 44	22 26	41	57	5	12	36
5	11 0	6 33	14	11 1	17 54	38	55	2	13	36
6	4	6 11	10	11 13	12 15	34	53	23 58	14	36
7	11 8	5 48	17 6	11 24	5 49	1 33	7 51	23 53	12 15	20 36
8	12	5 26	1	11 28	0 N59	30	49	48	16	36
9	15	5 3	16 56	11 32	7 45	27	47	43	17	36
10	19	4 40	50	11 31	14 5	24	45	38	18	36
11	23	4 17	44	11 25	19 33	21	43	33	19	36
12	27	3 54	37	11 14	23 48	18	41	27	20	36
13	31	3 31	30	11 2	26 32	15	39	21	21	36
14	11 35	3 8	16 22	10 43	27 37	1 12	7 36	23 15	12 22	20 36
15	39	2 45	15	10 25	27 1	9	34	9	23	36
16	43	2 22	7	10 1	24 54	6	32	2	24	36
17	47	1 59	15 58	9 35	21 31	3	29	22 56	25	36
18	51	1 35	48	9 4	17 11	1	27	19	26	35
19	55	1 12	38	8 33	12 10	0 58	24	42	27	35
20	59	0 49	27	7 57	6 44	55	21	35	28	35
21	12 3	0 25	15 17	7 21	1 8	0 52	7 19	22 27	12 29	20 35
22	7	0 2	6	6 42	4 S27	49	16	19	30	35
23	11	0 S21	14 54	6 2	9 50	46	14	11	31	35
24	15	0 45	42	5 26	14 50	43	11	3	33	35
25	19	1 8	30	4 38	19 16	40	8	21 55	34	35
26	23	1 32	17	3 49	22 58	37	5	47	35	35
27	26	1 55	3	3 9	25 44	34	3	38	36	35
28	12 30	2 19	13 49	2 24	27 22	0 31	7 0	21 29	12 37	20 35
29	34	2 42	35	1 38	27 41	28	6 57	20	39	35
30	12 38	3 5	13 20	0 52	26 35	0 25	6 54	21 11	12 40	20 35

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1892

Eclipse of Sun October 20th in ♎ 27° 34′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♃	♂	♅	♆	☊
	° ♎ ′	° ♏ ′	° ♎ ′	° ♒ ′	° ♎ ′	° ♈ ′	° ♒ ′	° ♍ ′	° ♊ ′	° ♉ ′
1	8 45	23 12	3 32	5 17	3 59	21R22	11 56	4 44	11R14	9 21
2	9 44	24 4	5 20	18 50	4 7	16	12 16	48	13	18
3	10 43	25 18	7 7	2 ♓50	13	7	12 38	51	13	15
4	11 42	2 23	8 53	1 17	21	0	12 58	54	12	11
5	12 42	27 27	10 40	2 ♈ 5	28	20 52	13 21	58	11	8
6	13 41	28 31	12 25	17 6	35	44	13 42	5 1	10	5
7	14 40	29 36	1 9	2 ♉13	4 43	20 36	14 5	5 4	11 9	9 2
8	15 39	0♍40	15 54	17 15	50	27	14 28	8	9	8 59
9	16 39	1 47	17 36	2 ♊ 5	58	20	14 52	12	8	56
10	17 38	53	19 18	16 38	5 6	11	15 15	16	7	52
11	♐ 37	3 59	21 0	0 ♋48	12	3	15 40	19	6	49
12	19 37	5 5	22 41	14 36	19	19 55	16 5	22	5	46
13	20 36	6 11	24 21	28 1	27	47	16 31	26	4	43
14	21 36	7 18	26 0	11♌ 6	5 35	19 38	16 56	5 30	11 3	8 40
15	22 35	8 24	27 40	23 52	41	31	17 21	34	2	37
16	23 35	9 32	29 17	6 ♍23	48	23	17 49	37	1	33
17	24 35	10 38	0♍55	18 41	56	15	18 15	41	0	30
18	25 34	11 47	2 32	0 ♎49	6 4	7	18 43	45	10 59	27
19	26 34	12 55	4 9	12 48	10	18 59	19 11	49	58	24
20	27 34	14 3	5 43	24 41	17	51	19 39	52	57	20
21	28 33	15 12	7 18	6 ♏30	6 24	18 43	20 7	5 56	10 56	8 17
22	29 33	16 19	8 53	18 17	31	35	20 35	6 0	55	14
23	0♏33	17 28	10 27	0 ♐ 4	38	26	21 5	3	53	11
24	1 33	18 38	12 0	11 54	45	20	21 34	7	52	8
25	2 33	19 46	13 33	23 50	52	12	22 4	11	51	5
26	3 33	20 55	15 6	5 ♑56	59	4	22 34	15	50	1
27	4 33	22 4	16 38	18 16	7 7	17 58	23 5	18	48	7 58
28	5 33	23 12	18 8	0 ♒54	7 13	17 50	23 35	6 22	10 47	7 55
29	6 33	24 23	19 40	13 52	20	42	24 6	26	46	52
30	7 33	25 39	21 11	27 16	26	35	24 37	30	44	49
31	8 33	26 42	22 42	11 ♓ 6	7 34	17 28	25 8	6 34	10 43	7 46

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1892

Full Moon October 6th in ♈ 13° 41′.

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	N	N	S	N	N	S	S	N
1	12 42	3 29	13 4	0 6	24 1	0 23	6 51	21 2	12 41	20 34
2	46	3 52	12 48	0 s 39	20 4	20	48	20 53	42	34
3	50	4 15	12 32	1 27	14 54	17	45	43	43	34
4	54	4 38	12 16	2 13	8 46	14	42	33	44	34
5	58	5 1	11 59	3 0	2 0	11	39	23	46	34
6	13 2	5 24	11 41	3 45	4 N59	8	34	13	47	34
7	13 6	5 47	11 23	4 31	11 45	0 5	6 33	20 3	12 48	20 34
8	10	6 10	11 5	5 18	17 48	2	30	19 52	49	33
9	14	6 33	10 46	6 2	22 42	s 0	27	42	51	33
10	18	6 56	10 27	6 46	26 3	3	24	32	52	33
11	22	7 18	10 8	7 30	27 39	6	21	21	53	33
12	26	7 41	9 48	8 14	27 28	9	18	10	54	33
13	30	8 3	9 28	8 57	25 39	12	15	18 59	56	33
14	13 33	8 26	9 7	9 37	22 31	0 14	6 12	18 48	12 57	20 32
15	37	8 48	8 46	10 21	18 21	17	9	36	58	32
16	41	9 10	8 25	11 2	13 29	20	6	25	59	32
17	45	9 32	8 3	11 43	8 10	23	3	13	13 1	32
18	49	9 54	7 41	12 23	2 36	25	0	2	2	32
19	53	10 15	7 19	13 2	2 s59	28	5 57	17 50	3	31
20	57	10 37	6 57	13 40	8 26	31	54	38	5	31
21	14 1	10 58	6 34	14 19	13 34	0 34	5 51	17 26	13 6	20 31
22	5	11 20	6 11	14 56	18 12	36	48	13	7	31
23	9	11 41	5 47	15 32	22 8	39	46	1	8	31
24	13	12 1	5 24	16 7	25 10	41	43	16 49	9	30
25	17	12 22	5 0	16 42	27 7	44	40	36	11	30
26	21	12 43	4 36	17 15	27 49	47	37	23	12	30
27	25	13 3	4 12	17 48	27 9	50	35	10	13	30
28	14 29	13 23	3 47	18 20	25 6	0 52	5 32	15 57	13 14	20 30
29	33	13 43	3 22	18 52	21 43	55	29	44	16	29
30	37	14 2	2 57	19 22	17 8	57	27	31	17	29
31	14 41	14 22	2 32	19 51	11 31	1 0	5 24	15 17	13 18	20 29

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1892

New Moon November 19th in ♏ 27° 40′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♏′	° ♏′	° ♏′	° ♐′	° ♑′	° ♈′	° ♒′	° ♏′	° ♊′	° ♉′
1	9 33	27 52	24 10	25 23	7 40	17R20	25 41	6 36	10R42	7 42
2	10 33	29 3	25 40	10♈ 5	46	14	26 13	41	41	39
3	11 33	0♎14	27 8	25 6	53	8	26 46	44	39	36
4	12 33	1 24	28 36	10♉18	8 0	1	27 18	49	38	33
5	13 33	2 34	0 ♐ 3	25 32	6	16 56	27 51	53	36	30
—6	14 34	3 45	1 30	10♊39	13	48	28 24	56	34	26
7	15 34	4 56	2 55	25 28	8 19	16 42	28 58	7 0	10 33	7 23
8	16 34	6 7	4 22	9 ♋55	25	37	29 30	3	32	20
9	17 35	7 18	5 47	23 55	32	30	0 ♓ 4	7	30	17
10	18 35	8 29	7 12	7 ♌28	37	25	0 38	11	29	14
11	19 35	9 41	8 35	20 35	44	19	1 11	14	27	11
12	20 36	10 52	9 58	3 ♍18	51	14	1 46	18	25	8
—13	21 36	12 3	11 19	15 43	58	8	2 21	22	24	5
14	22 37	13 14	12 41	27 52	9 3	16 3	2 55	7 26	10 23	7 2
15	23 37	14 26	14 0	9 ♎51	9	15 57	3 30	30	21	6 58
16	24 38	15 39	15 18	21 42	15	54	4 5	33	19	55
17	25 38	16 51	16 34	3 ♏30	20	49	4 41	37	17	52
18	26 39	18 3	17 48	15 16	26	45	5 15	40	16	48
19	27 40	19 14	19 2	27 5	32	40	5 51	44	15	45
—20	28 40	20 27	20 13	8 ♐57	38	37	6 26	48	13	42
21	29 41	21 40	21 21	20 54	9 44	15 33	7 3	7 52	10 11	6 39
22	0 ♐42	22 52	22 25	3 ♑ 0	50	29	7 38	55	9	36
23	1 42	24 5	23 28	15 14	55	26	8 14	58	7	33
24	2 43	25 17	24 26	27 40	10 0	24	8 50	8 2	6	29
25	3 44	26 30	25 20	10♒21	6	20	9 27	5	4	26
26	4 44	27 43	26 11	23 18	11	17	10 4	9	2	23
—27	5 45	28 57	26 53	6 ♓34	15	14	10 40	12	0	20
28	6 46	0 ♏ 9	27 31	20 12	10 21	15 12	11 17	8 15	9 59	6 17
29	7 47	1 22	28 3	4 ♈12	26	9	11 54	19	57	14
30	8 48	2 35	28 24	18 36	10 31	15 7	12 32	8 22	9 56	6 10

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1892

Eclipse of Moon November 4th in ♉ 12° 33'

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♃	♂	♅	♆
		S	N	S	S	S	N	S	S	N
1	14 44	14 41	2 7	20 19	5 8	1 2	5 22	15 4	13 19	20 29
2	48	15 0	1 41	20 46	1 N42	4	19	14 50	20	29
3	52	15 19	1 16	21 13	8 37	7	17	36	21	28
4	56	15 37	0 50	21 38	15 7	10	15	22	23	28
5	15 0	15 55	0 24	22 2	20 43	12	12	9	23	28
6	4	16 13	0 S 2	22 24	24 53	14	10	13 55	24	28
7	15 8	16 31	0 28	22 47	27 17	1 17	5 8	13 40	13 26	20 28
8	12	16 48	0 54	23 7	27 45	19	6	26	28	27
9	16	17 5	1 20	23 27	26 23	22	4	12	29	27
10	20	17 22	1 47	23 46	23 32	24	2	12 57	30	27
11	24	17 39	2 13	24 3	19 32	26	0	43	31	26
12	28	17 55	2 39	24 18	14 45	28	4 58	28	32	26
13	32	18 11	3 6	24 33	9 30	31	56	13	33	26
14	15 36	18 26	3 32	24 46	3 59	1 33	4 55	11 59	13 35	20 25
15	40	18 42	3 59	24 59	1 S36	35	53	44	36	25
16	44	18 56	4 26	25 9	7 5	38	51	29	37	25
17	48	19 11	4 52	25 19	12 18	40	50	14	38	25
18	51	19 25	5 18	25 26	17 4	42	48	10 58	39	24
19	55	19 39	5 45	25 33	21 12	44	47	43	40	24
20	59	19 53	6 11	25 37	24 29	46	45	27	41	24
21	16 3	20 6	6 38	25 41	26 43	1 48	4 44	10 12	13 42	20 24
22	7	20 19	7 4	25 43	27 44	50	43	9 57	44	24
23	11	20 31	7 31	25 44	27 24	52	42	41	45	23
24	15	20 43	7 57	25 42	25 42	54	41	25	46	23
25	19	20 55	8 23	25 40	22 41	56	40	10	47	23
26	23	21 6	8 48	25 35	18 31	58	39	8 54	48	23
27	27	21 17	9 14	25 30	13 22	2 0	39	38	49	22
28	16 31	21 27	9 40	25 23	7 26	2 1	4 38	8 22	13 50	20 22
29	35	21 37	10 5	25 15	0 59	3	38	6	51	22
30	16 39	21 47	10 30	25 4	5 N42	2 5	4 37	7 50	13 52	20 22

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1892

New Moon December 19 in ♐ 28° 7′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇
	° ♐ ′	° ♏ ′	° ♐ ′	° ♉	° ♓ ′	° ♑ ′	° ♈ ′	° ♌	° ♊ ′	° ♉ ′
1	9 49	3 47	28 39	3 20	10 36	15R 6	13 8	8 26	9 R54	6 7
2	10 49	5 1	28 44	18 19	40	4	13 45	29	52	4
3	11 50	6 14	28R38	3 ♊27	46	3	14 22	33	50	1
—4	12 51	7 26	28 22	18 33	51	2	15 0	36	48	5 58
5	13 52	8 41	27 53	3 ♋29	54	1	15 38	39	47	55
6	14 53	9 54	27 16	18 6	11 0	0	16 15	42	45	51
7	15 54	11 8	26 26	2 ♌17	11 4	14 59	16 52	8 45	9 44	5 48
8	16 55	12 21	25 26	16 0	9	59	17 30	48	42	45
9	17 56	13 34	24 17	29 14	13	59	18 7	52	41	42
10	18 57	14 49	23 0	12♍ 2	17	D59	18 46	55	39	38
—11	19 58	16 2	21 40	24 27	22	59	19 24	58	37	35
12	20 59	17 16	20 18	6 ♎35	26	15 0	20 2	9 1	35	32
13	22 0	18 31	18 54	18 31	30	1	20 41	4	34	29
14	23 1	19 44	17 36	0 ♍19	11 33	15 1	21 19	9 7	9 32	5 26
15	24 2	20 58	16 24	12 5	37	2	21 57	10	30	23
16	25 3	22 12	15 18	23 52	40	4	22 35	13	29	19
17	26 4	23 26	14 23	5 ♐45	44	5	23 14	15	28	16
—18	27 5	24 40	13 38	17 44	48	7	23 52	18	26	13
19	28 7	25 54	13 4	29 53	52	9	24 31	21	24	10
20	29 8	27 8	12 42	12♑13	55	11	25 10	24	22	7
21	0 ♑ 9	28 22	12 28	24 43	11 58	15 13	25 49	9 27	9 21	5 4
22	1 10	29 36	12 26	7 ♒25	12 1	16	26 27	30	19	0
23	2 11	0 ♐50	12D33	20 18	4	19	27 5	32	— 17	4 57
24	3 12	2 5	12 48	3 ♓24	7	22	27 45	34	16	54
—25	4 13	3 20	13 12	16 43	10	25	28 24	37	15	51
26	5 15	4 33	13 44	0 ♈17	13	27	29 3	40	13	48
27	6 16	5 47	14 20	14 7	16	31	29 43	42	11	45
28	7 17	7 2	15 4	28 13	12 18	15 36	0 ♈22	9 44	9 10	4 41
29	8 18	8 16	15 50	12♉34	20	40	1 0	47	9	38
30	9 19	9 30	16 43	27 10	23	44	1 40	50	8	35
31	10 20	10 44	17 38	11♊55	12 25	15 48	2 19	9 52	9 6	4 32

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1892

Full Moon December 4th in ♊ 12° 51′

Declination of the Planets

D	S T	☉	☿	♂	☽	♃	♅	♂	♆	♀
		S	S	S	N	S	N	S	S	N
1	16 43	21 56	10 55	24 53	12 15	2 7	4 37	7 34	13 54	20 22
2	47	22 5	11 20	39	18 13	9	36	19	55	22
3	51	13	11 44	25	23 5	10	36	2	56	21
4	55	21	12 9	9	26 22	12	36	6 46	57	21
5	58	29	12 33	23 51	27 43	13	36	29	58	21
6	17 2	36	12 57	31	27 5	15	36	13	59	21
7	17 6	22 43	13 20	23 11	24 41	2 16	4 36	5 57	14 0	20 20
8	10	49	13 43	22 48	20 56	18	36	41	1	20
9	14	54	14 6	26	16 15	19	37	24	2	20
10	18	23 0	14 29	2	10 59	21	37	7	3	20
11	22	5	14 51	21 39	5 26	22	37	4 51	4	19
12	26	9	15 13	16	0 s12	24	38	34	5	19
13	30	13	15 34	20 52	5 43	25	38	17	6	19
14	17 34	23 16	15 55	20 32	11 1	2 27	4 38	4 0	14 7	20 19
15	38	19	16 16	12	15 53	28	39	3 44	8	18
16	42	22	16 37	19 56	20 11	29	40	27	9	18
17	46	24	16 57	43	23 42	30	41	11	10	18
18	50	25	17 17	34	26 13	31	42	2 54	11	18
19	54	27	17 36	26	27 32	32	43	37	12	17
20	58	27	17 52	23	27 31	33	44	20	12	17
21	18 2	23 27	18 13	19 21	26 6	2 34	4 45	2 3	14 13	20 17
22	6	27	18 30	23	23 21	35	47	1 47	14	17
23	9	26	18 48	28	19 24	36	48	30	15	17
24	13	25	19 4	35	14 29	37	49	13	15	17
25	17	23	19 21	43	8 48	38	51	0 56	16	16
26	21	21	19 36	53	2 37	39	52	39	17	16
27	25	18	19 52	20 4	3 N49	40	54	22	18	16
28	18 29	23 15	20 6	20 16	10 12	2 40	4 56	0 5	14 19	20 16
29	33	12	20 21	29	16 11	41	58	N11	19	15
30	37	8	20 34	42	21 20	41	59	28	20	15
31	18 41	23 3	20 47	20 56	25 11	2 42	5 1	0 45	14 21	20 15

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8988	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	35	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4230	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3328
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	08
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5692	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	63	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3395	16

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

M	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	83
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	19	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	56	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06

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The Rosicrucian Fellowship,
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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1893

New Moon January 18th in ♒ 28° 41′

Longitude of the Planets

D	☉	☿	☿	☽	♄	♅	♂	♃	♆	☊
	°♒′	°♑′	°♑′	°♊′	°♐′	°♈′	°♉′	°♍′	°♊′	°♉′
1	11 22	11 59	18 39	26 43	12 27	15 53	2 57	9 54	9 R 5	4 29
2	12 23	13 13	19 43	11♋26	29	57	3 38	56	3	25
3	13 24	14 28	20 49	25 57	31	16 2	4 17	59	2	22
4	14 25	15 44	21 59	10♌ 7	33	7	4 57	10 1	1	19
5	15 27	16 57	23 8	23 52	35	12	5 36	3	8 59	16
6	16 28	18 12	24 22	7 ♍11	36	18	6 16	5	58	13
7	17 29	19 25	25 36	20 4	12 38	16 23	6 55	10 7	8 57	4 10
8	18 30	20 41	26 53	2 ♎33	39	29	7 34	9	56	6
9	19 31	21 55	28 10	14 44	40	35	8 14	11	55	3
10	20 32	23 10	29 29	26 41	41	41	8 53	13	53	0
11	21 33	24 26	0♒50	8 ♏30	42	48	9 33	14	52	3 57
12	22 34	25 39	2 11	20 16	43	54	10 13	16	51	54
13	23 36	26 54	3 35	2 ♐ 6	44	17 1	10 52	18	50	51
14	24 37	28 10	4 57	14 2	12 45	17 8	11 32	10 19	8 49	3 47
15	25 38	29 23	6 22	26 9	46	14	12 12	21	48	44
16	26 39	0♒38	7 48	8 ♒30	47	22	12 51	23	47	41
17	27 40	1 53	9 14	21 5	47	29	13 31	24	46	38
18	28 41	3 7	10 41	3 ♓54	47	36	14 10	26	45	35
19	29 42	4 22	12 7	16 57	48	44	14 50	27	44	32
20	0♓43	5 38	13 37	0 ♈13	48	52	15 30	28	43	28
21	1 44	6 52	15 5	13 39	12 48	18 0	16 10	10 29	8 42	3 25
22	2 45	8 6	16 34	27 15	48	8	16 50	31	41	22
23	3 46	9 22	18 6	10♈58	48	16	17 29	32	40	19
24	4 47	10 36	19 36	24 50	48	24	18 9	33	40	16
25	5 48	11 51	21 8	8 ♉50	R47	33	18 49	34	39	13
26	6 49	13 6	22 41	22 57	47	41	19 29	35	38	9
27	7 50	14 20	24 14	7 ♊11	46	50	20 9	36	38	6
28	8 51	15 35	25 46	21 30	12 46	18 59	20 48	10 37	8 37	3 3
29	9 52	16 51	27 21	5 ♋51	45	19 8	21 28	38	36	3 0
30	10 53	18 4	28 56	20 8	44	17	22 8	38	36	2 56
31	11 54	19 19	0♓33	4 ♌16	12 43	19 27	22 48	10 39	8 35	2 53

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1893

Full Moon January 2nd in ♋ 12° 23′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	S	S	N	S	N	N	S	N
1	18 45	22 58	21 0	21 10	27 20	2 43	5 3	1 2	14 22	20 15
2	49	53	11	24	27 33	43	5	19	22	15
3	53	47	22	38	25 51	43	7	36	23	15
4	57	40	33	51	22 33	44	10	53	24	15
5	19 1	34	42	22 3	18 5	44	12	2 10	24	15
6	5	26	52	15	12 51	44	15	27	25	15
7	19 9	22 19	22 1	22 27	7 13	2 45	5 17	2 43	14 26	20 14
8	13	11	8	37	1 28	45	20	3 0	26	14
9	16	2	16	47	4 s12	45	23	17	27	14
10	20	21 53	24	57	9 38	46	25	33	28	14
11	24	44	29	23 4	14 39	46	28	50	28	14
12	28	34	35	11	19 8	46	31	4 7	29	14
13	32	24	40	19	22 52	47	33	23	29	13
14	19 36	21 13	22 43	23 23	25 41	2 47	5 36	4 40	14 30	20 13
15	40	2	47	27	27 20	47	39	57	31	13
16	44	20 50	50	31	27 41	47	41	5 13	31	13
17	48	38	52	31	26 37	47	44	30	32	13
18	52	26	53	32	24 9	47	47	47	32	13
19	56	14	54	33	20 24	46	51	6 2	32	13
20	20 0	1	54	30	15 35	46	54	19	33	13
21	20 4	19 47	22 53	23 27	9 58	2 46	5 57	6 35	14 33	20 13
22	8	33	52	24	3 48	45	6 0	51	33	12
23	12	19	49	17	2 N36	45	3	7 8	34	12
24	16	5	46	10	8 57	45	7	24	34	12
25	20	18 50	43	3	14 56	44	11	39	34	12
26	24	35	38	22 52	20 11	44	14	55	34	12
27	27	19	33	41	24 19	43	18	8 11	35	12
28	20 31	18 3	22 28	22 31	26 57	2 43	6 21	8 27	14 35	20 12
29	35	17 47	21	16	27 48	42	24	43	35	12
30	39	31	14	22 1	26 47	42	28	58	36	12
31	20 43	17 14	22 7	21 45	24 4	2 41	6 32	9 14	14 36	20 12

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1893

New Moon February 16th in ♒ 28° 5′

Longitude of the Planets

D	☉	☿	♂	♃	♄	♅	♆	♇	☊
	° ♒′	° ♑′	° ♒′	° ♌′	° ♓′	° ♈′	° ♏′	° ♊′	° ♉′
1	12 54	20 34	2 7	18 9	12R42	19 36	23 28	10 40	8 R34	2 50
2	13 55	21 50	3 45	1 ♍44	40	46	24 8	41	34	47
3	14 56	23 3	5 24	14 57	39	56	24 48	41	34	44
4	15 57	24 17	7 2	27 47	37	20 5	25 28	42	33	41
5	16 58	25 33	8 41	10♎17	35	15	26 7	42	33	37
6	17 58	26 48	10 23	22 30	34	25	26 47	42	33	34
7	18 59	28 3	12 4	4 ♍29	12 32	20 36	27 27	10 43	8 32	2 31
8	20 0	29 17	13 45	16 19	30	46	28 7	43	32	28
9	21 0	0♒30	15 27	28 7	29	56	28 47	43	32	25
10	22 1	1 46	17 11	9 ♐58	27	21 7	29 27	44	31	22
11	23 2	3 2	18 55	21 57	24	17	0 ♉ 6	44	31	18
12	24 2	4 16	20 41	4 ♑ 9	22	28	0 46	44	31	15
13	25 3	5 32	22 26	16 36	20	39	1 26	44	30	12
14	26 4	6 47	24 14	29 22	12 17	21 50	2 6	10 44	8 30	2 8
15	27 4	8 1	26 1	12♒28	14	22 1	2 46	R44	30	5
16	28 5	9 17	27 50	25 51	12	12 3	26	44	30	2
17	29 5	10 30	29 38	9 ♓31	10	24 4	5	43	30	1 59
18	0 ♓ 6	11 46	1♓28	23 23	7	35 4	45	43	30	56
19	1 6	13 0	3 20	7 ♈25	4	46 5	25	43	D30	53
20	2 7	14 15	5 11	21 31	1	57 6	5	42	30	49
21	3 7	15 30	7 4	5 ♉39	11 58	23 9	6 45	10 42	8 30	1 46
22	4 8	16 44	8 58	19 48	55	21 7	24	41	31	43
23	5 8	17 59	10 51	3 ♊56	52	34 8	4	41	31	40
24	6 8	19 15	12 46	18 1	48	45 8	44	40	31	37
25	7 9	20 28	14 39	2 ♋ 2	45	57 9	24	40	31	34
26	8 9	21 43	16 33	15 59	42	24 9	10 3	39	31	30
27	9 9	22 59	18 26	29 48	38	22	10 43	38	32	27
28	10 9	24 12	20 20	13♌28	11 34	24 33	11 23	10 37	8 32	1 24

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1893

Full Moon February 1st in ♌ 12° 54′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♃	♂	♅	♆
		S	S	S	N	S	N	N	S	N
1	20 47	16 57	21 59	21 27	19 59	2 40	6 36	9 30	14 36	20 12
2	51	16 40	50	21 6	14 56	40	40	45	36	12
3	55	16 22	40	20 45	9 19	39	44	10 0	36	12
4	59	16 4	30	20 25	3 28	38	48	16	37	12
5	21 3	15 46	18	20 0	2 S23	37	52	31	37	12
6	7	15 27	7	19 35	8 1	36	56	46	37	12
7	21 11	15 8	20 56	19 10	13 16	2 35	7 0	11 2	14 37	20 12
8	15	14 49	43	18 42	17 58	34	4	17	37	12
9	19	14 30	29	18 12	21 58	33	8	32	37	12
10	23	14 11	15	17 42	25 5	32	12	47	37	12
11	27	13 51	0	17 8	27 7	31	16	12 2	37	12
12	31	13 31	19 45	16 34	27 53	30	20	17	37	12
13	34	13 11	30	16 0	27 16	29	25	31	37	12
14	21 38	12 50	19 13	15 25	25 14	2 28	7 29	12 45	14 37	20 12
15	42	12 30	18 56	14 44	21 49	26	33	13 0	37	12
16	46	12 9	39	14 6	17 13	25	38	14	37	12
17	50	11 48	21	13 22	11 39	24	42	28	37	12
18	54	11 27	2	12 41	5 26	23	49	42	37	12
19	58	11 5	17 43	11 59	1 N 7	22	51	57	36	12
20	22 2	10 44	23	11 12	7 40	20	56	14 11	36	12
21	22 6	10 22	17 3	10 26	13 52	2 19	8 0	14 24	14 36	20 12
22	10	10 0	16 43	9 40	19 21	17	4	38	36	12
23	14	9 38	21	8 50	23 44	16	9	51	36	12
24	18	9 16	0	8 0	26 41	14	14	15 4	35	13
25	22	8 53	15 39	7 10	27 57	13	18	18	35	13
26	26	8 31	16	6 18	27 25	12	23	31	35	13
27	30	8 8	14 53	5 25	25 12	10	28	44	35	13
28	22 34	7 46	14 30	4 32	21 33	2 8	8 32	15 57	14 35	20 13

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1893

New Moon March 18th in ♓ 28° 7′

Longitude of the Planets

D	☉	♀	☿	☽	♄	♃	♂	♅	♆	♇
	°♓′	°♒′	°♓′	°♌′	°♐′	°♈′	°♉′	°♍′	°♊′	°♉′
1	11 9	25 27	22 14	26 56	11R31	24 46	12 4	10R37	8 33	1 21
2	12 9	26 42	24 7	10♍ 8	27	58	12 44	36	33	18
3	13 10	27 57	25 56	23 5	23	25 10	13 22	35	34	15
4	14 10	29 12	27 45	5 ♎44	19	24	14 2	34	34	12
5	15 10	0♓25	29 30	18 8	15	37	14 41	33	34	8
6	16 10	1 40	1♈15	0 ♏17	11	48	15 21	31	35	5
7	17 10	2 54	2 57	12 16	11 7	26 1	16 1	10 30	8 36	1 2
8	18 10	4 10	4 34	24 7	3	13	16 40	29	36	0 59
9	19 9	5 25	6 6	5 ♐56	10 59	27	17 20	28	37	56
10	20 9	6 39	7 34	17 47	54	41	17 59	26	38	53
11	21 9	7 53	8 54	29 47	50	54	18 39	25	39	49
12	22 9	9 7	10 15	11♑58	47	27 6	19 18	24	40	46
13	23 9	10 22	11 24	24 27	42	19	19 58	23	40	43
14	24 9	11 37	12 29	7 ♒17	10 38	27 32	20 37	10 22	8 41	0 40
15	25 8	12 52	13 27	20 29	34	46	21 17	20	42	37
16	26 8	14 7	14 15	4 ♓ 5	29	58	21 57	18	43	34
17	27 8	15 21	14 59	18 2	24	28 12	22 37	17	44	30
18	28 7	16 36	15 32	2 ♈16	20	25	23 16	16	46	27
19	29 7	17 52	15 59	16 44	16	38	23 55	14	47	24
20	0 ♈ 7	19 5	16 17	1 ♉17	12	52	24 35	12	48	21
21	1 6	20 21	16 28	15 52	10 7	29 7	25 14	10 10	8 49	0 18
22	2 6	21 34	16 30	0 ♊22	2	18	25 53	8	51	15
23	3 5	22 49	16R24	14 44	9 57	33	26 33	6	52	11
24	4 5	24 4	16 13	28 54	52	46	27 12	4	53	8
25	5 4	25 18	15 52	12♋52	47	0 ♉ 0	27 52	2	54	5
26	6 3	26 32	15 26	26 35	42	13	28 31	0	55	2
27	7 3	27 47	14 55	10♌ 6	39	28	29 10	9 58	56	29♈59
28	8 2	29 2	14 17	23 22	9 34	0 42	29 49	9 56	8 57	29 57
29	9 1	0♈15	13 34	6 ♍24	29	57	0♊29	54	58	52
30	10 0	1 31	12 50	19 13	23	1 11	1 8	52	59	49
31	10 59	2 43	12 4	1 ♎49	9 20	1 23	1 47	9 50	9 0	29 46

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1893

Full Moon March 2nd in ♍ 12° 9′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	S	S	N	S	N	N	S	N
1	22 38	7 23	14 7	3 39	16 49	2 7	8 36	16 10	14 35	20 13
2	42	7 0	13 42	2 45	11 23	6	41	23	35	13
3	45	6 37	13 18	1 51	5 33	4	46	36	34	13
4	49	6 14	12 54	0 57	0 s23	2	51	48	34	14
5	53	5 51	12 28	0 4	6 11	1	55	17 0	34	14
6	57	5 28	12 3	0 N 48	11 39	1 59	9 0	13	33	14
7	23 1	5 4	11 37	1 41	16 38	1 57	9 5	17 25	14 33	20 14
8	5	4 41	11 10	2 31	20 55	56	10	37	32	14
9	9	4 17	10 43	3 21	24 21	54	15	49	32	14
10	13	3 54	10 18	4 8	26 46	52	19	18 0	31	15
11	17	3 30	9 51	4 50	27 58	50	24	11	31	15
12	21	3 7	9 24	5 32	27 51	48	29	23	30	15
13	25	2 43	8 57	6 15	26 20	46	34	34	30	15
14	23 29	2 19	8 29	6 48	23 26	1 45	9 39	18 45	14 30	20 15
15	33	1 56	8 1	7 21	19 15	43	44	56	29	15
16	37	1 32	7 33	7 55	13 59	41	48	19 7	29	16
17	41	1 8	7 4	8 18	7 53	39	53	17	28	16
18	45	0 45	6 36	8 41	1 15	37	58	27	27	16
19	49	0 21	6 8	9 3	5 N33	35	10 3	38	27	16
20	52	0 N 3	5 39	9 13	12 8	34	8	48	26	16
21	23 56	0 27	5 10	9 23	18 4	1 32	10 13	19 58	14 26	20 16
22	0 0	0 50	4 41	9 33	22 55	30	18	20 8	25	17
23	4	1 14	4 11	9 31	26 19	28	23	18	25	17
24	8	1 37	3 42	9 28	27 59	26	27	28	24	17
25	12	2 1	3 13	9 25	27 51	24	32	37	24	18
26	16	2 25	2 44	9 10	25 59	22	37	46	23	18
27	20	2 48	2 14	8 55	22 41	20	42	55	22	18
28	0 24	3 11	1 44	8 40	18 15	1 18	10 47	21 4	14 22	20 18
29	28	3 35	1 14	8 16	13 2	16	52	13	21	18
30	32	3 58	0 44	7 51	7 21	15	57	22	20	18
31	0 36	4 21	0 14	7 26	1 28	1 13	11 2	21 30	14 20	20 19

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1893

Eclipse of Sun April 16th in ♈ 26° 42′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♃	♂	☿	Ψ	Ω
	° ♈′	° ♈′	° ♈′	° ♎′	° ♎′	° ♑′	° Ⅱ′	° ♍′	° Ⅱ′	° ♈′
1	11 59	3 59	11R12	14 13	9 R15	1 38	2 25	9 R48	9 2	29 43
2	12 58	5 14	10 24	26 25	11	52	3 5	46	3	39
3	13 57	6 28	9 36	8 ♍27	6	2 6	3 44	44	4	36
4	14 56	7 43	8 49	20 22	1	19	4 24	42	6	33
5	15 55	8 56	8 5	2 ♐13	8 57	33	5 3	39	8	30
6	16 54	10 11	7 23	14 2	53	48	5 43	37	9	27
7	17 53	11 26	6 44	25 54	8 47	3 3	6 22	9 35	9 10	29 24
8	18 52	12 39	6 10	7 ♑52	43	16	7 1	32	12	20
9	19 51	13 54	5 41	20 3	38	30	7 38	30	14	17
10	20 49	15 8	5 17	2 ♒30	33	43	8 18	28	15	14
11	21 48	16 20	4 58	15 16	29	58	8 57	25	17	11
12	22 47	17 35	4 41	28 27	25 4	12	9 37	23	19	8
13	23 46	18 50	4 32	12♓ 3	21	27	10 16	21	20	5
14	24 44	20 4	4 30	26 5	8 16	4 41	10 55	9 18	9 22	29 2
15	25 43	21 20	4 D31	10 ♈30	11	56	11 34	16	24	28 58
16	26 42	22 33	4 37	25 13	7 5	11	12 12	13	25	55
17	27 40	23 48	4 48	10♉ 9	4	24	12 51	11	27	51
18	28 39	25 1	5 5	25 8	7 59	39	13 30	8	29	48
19	29 38	26 17	5 27	10♊ 2	54	54	14 9	6	31	45
20	0 ♉36	27 30	5 52	24 45	50 6	6	14 48	3	33	42
21	1 35	28 44	6 20	9 ♋11	7 46	6 22	15 26	9 1	9 35	28 39
22	2 33	29 58	6 54	23 16	42	37	16 6	8 58	36	36
23	3 32	1 ♉12	7 34	7 ♌ 0	38	51	16 45	56	38	32
24	4 30	2 25	8 15	20 22	34 7	5	17 24	53	40	29
25	5 28	3 41	9 0	3 ♍25	31	19	18 2	51	42	26
26	6 27	4 55	9 48	16 10	27	35	18 41	48	44	23
27	7 25	6 7	10 41	28 41	24	48	19 20	46	46	20
28	8 23	7 22	11 36	10♎59	7 29	8 3	19 59	8 43	9 48	28 17
29	9 21	8 36	12 34	23 8	16	17	20 38	41	50	14
30	10 20	9 50	13 35	5 ♍37	12 8	31	21 16	8 38	9 52	28 11

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1893

Full Moon April 1st in ♎ 11° 59′

Full Moon April 30th in ♏ 10° 20′

Declination of the Planets

D	S T	☉	♀	♂	♃	♄	♅	♆	♇
		N	N	N	S	S	N	N	S	N
1	0 40	4 44	0 16	6 57	4 2·	1 11	11 7	21 38	14 19	20 19
2	44	5 8	0 46	6 25	10 0	9	12	46	19	19
3	48	5 30	1 16	5 54	15 11	7	17	53	18	19
4	52	5 53	1 45	5 23	19 44	5	22	22 1	17	20
5	56	6 16	2 15	4 54	23 29	4	27	8	17	20
6	59	6 39	2 45	4 21	26 14	2	32	15	16	20
7	1 3	7 1	3 15	3 50	27 50	1 0	11 36	22 23	14 15	20 21
8	7	7 24	3 44	3 23	28 9	0 58	41	30	15	21
9	11	7 46	4 14	2 56	27 7	56	46	37	14	21
10	15	8 8	4 43	2 30	24 45	55	51	44	13	22
11	19	8 30	5 13	2 10	21 6	54	56	50	12	22
12	23	8 52	5 43	1 50	16 20	52	12 1	56	11	22
13	27	9 14	6 12	1 30	10 36	50	6	23 2	10	23
14	1 31	9 36	6 41	1 17	4 11	0 48	12 11	23 8	14 10	20 23
15	35	9 57	7 10	1 5	2 N38	47	16	14	9	23
16	39	10 18	7 38	0 53	9 28	45	20	20	8	24
17	43	10 39	8 7	0 48	15 52	43	25	26	8	24
18	47	11 0	8 37	0 43	21 21	42	30	31	7	24
19	51	11 21	9 4	0 39	25 26	40	35	35	6	24
20	55	11 42	9 32	0 39	27 44	38	40	40	5	24
21	1 59	12 2	9 51	0 43	28 7	0 37	12 45	23 44	14 4	20 25
22	2 3	12 22	10 27	0 47	26 38	35	49	49	3	25
23	7	12 42	10 54	0 56	23 36	34	54	53	3	25
24	10	13 2	11 21	1 6	19 22	32	59	58	2	25
25	14	13 21	11 48	1 15	14 19	31	13 3	24 1	1	26
26	18	13 41	12 14	1 31	8 46	29	8	4	1	26
27	22	14 0	12 40	1 47	2 58	28	13	7	0	26
28	2 26	14 19	13 7	2 2	2 S52	0 27	13 17	24 11	13 59	20 27
29	30	14 37	13 33	2 17	8 30	26	22	14	58	27
30	2 34	14 56	14 0	2 35	13 48	0 25	13 26	24 17	13 58	20 27

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1893

New Moon May 15th in ♉ 24° 50′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♉ ′	° ♉ ′	° ♈ ′	° ♏ ′	° ♓ ′	° ♉ ′	° ♊ ′	° ♏ ′	° ♊ ′	° ♈ ′
1	11 18	11 7	14 41	17 3	7 ℞ 9	8 45	21 56	8 ℞35	9 54	28 7
2	12 16	12 20	15 49	28 54	6	9 0	22 35	33	56	4
3	13 14	13 34	16 57	10 ♐ 44	2	13	23 13	31	58	1
4	14 12	14 48	18 7	22 34	6 58	27	23 51	28	10 0	27 58
5	15 10	16 0	19 24	4 ♑ 28	55	42	24 30	25	2	54
6	16 8	17 14	20 42	16 29	52	57	25 8	23	4	51
7	17 6	18 29	21 59	28 39	6 49	10 11	25 46	8 21	10 6	27 48
8	18 4	19 42	23 20	11 ♒ 4	47	26	26 25	18	8	45
9	19 2	20 57	24 45	23 47	44	40	27 4	16	10	42
10	20 0	22 10	26 13	6 ♓ 52	41	55	27 43	13	12	39
11	20 58	23 25	27 39	20 21	38	11 8	28 21	10	14	35
12	21 56	24 38	29 10	4 ♈ 17	36	22	29 0	8	17	32
13	22 54	25 53	0 ♉ 43	18 39	33	38	29 39	6	19	29
14	23 52	27 5	2 18	3 ♉ 24	6 31	11 51	0 ♋ 17	8 3	10 21	27 26
15	24 50	28 21	3 56	18 27	29	12 5	0 55	1	23	23
16	25 47	29 34	5 34	3 ♊ 40	27	20	1 34	7 59	25	20
17	26 45	0 ♊ 46	7 16	18 51	24	34	2 13	57	27	16
18	27 43	2 1	8 58	3 ♋ 52	22	47	2 51	55	29	13
19	28 41	3 14	10 43	18 34	20	13 1	3 29	52	32	10
20	29 38	4 29	12 32	2 ♌ 52	18	16	4 8	49	34	7
21	0 ♊ 36	5 44	14 22	16 43	6 17	13 30	4 47	7 47	10 37	27 4
22	1 34	6 56	16 12	0 ♍ 7	15	43	5 25	45	39	1
23	2 31	8 10	18 7	13 6	13	57	6 3	42	41	26 57
24	3 29	9 25	20 3	25 44	11	14 11	6 42	40	43	54
25	4 27	10 38	22 0	8 ♎ 5	10	25	7 19	38	45	51
26	5 24	11 52	24 1	20 13	9	40	7 58	36	47	48
27	6 22	13 5	26 2	2 ♍ 11	7	54	8 36	34	49	45
28	7 19	14 20	28 5	14 4	6 6	15 8	9 15	7 31	10 52	26 42
29	8 17	15 33	0 ♊ 13	25 54	5	21	9 54	29	54	38
30	9 14	16 46	2 20	7 ♑ 43	5	35	10 32	27	56	35
31	10 12	18 0	4 27	19 34	6 4	15 49	11 10	7 25	10 59	26 32

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1893

Full Moon May 30th in ♐ 9° 14′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ S	♄ S	♃ N	♂ N	♅ S	♆ N
1	2 38	15 14	14 23	3 4	18 32	0 23	13 31	24 20	13 56	20 28
2	42	15 32	47	3 29	22 31	22	36	22	55	28
3	46	15 49	15 11	3 54	25 34	21	41	24	55	28
4	50	16 7	36	4 20	27 30	20	45	26	54	29
5	54	16 24	59	4 50	28 11	19	50	28	53	29
6	58	16 41	16 22	5 19	27 32	17	55	30	52	29
7	3 2	16 57	16 45	5 48	25 35	0 16	13 59	24 32	14 51	20 30
8	6	17 14	17 6	6 21	22 24	15	14 4	33	51	30
9	10	17 30	28	6 54	18 5	14	8	34	50	30
10	14	17 45	50	7 26	12 50	13	12	35	49	31
11	17	18 1	18 10	8 2	6 49	12	16	35	49	31
12	21	18 16	31	8 38	0 17	11	20	36	48	31
13	25	18 31	52	9 14	6 N28	11	25	36	47	32
14	3 29	18 45	19 11	9 52	13 4	0 10	14 29	24 36	13 46	20 32
15	33	18 59	30	10 30	19 2	9	33	36	45	32
16	37	19 13	48	11 8	23 51	9	38	36	44	33
17	41	19 27	20 5	11 48	27 0	8	42	35	43	33
18	45	19 40	22	12 28	28 9	8	47	35	43	33
19	49	19 53	40	13 8	27 15	7	51	34	42	34
20	53	20 5	56	13 49	24 35	6	55	33	42	34
21	3 57	20 18	21 12	14 30	20 33	0 6	14 59	24 32	13 41	20 34
22	4 1	20 29	27	15 11	15 35	5	15 4	31	40	35
23	5	20 41	41	15 52	10 4	5	8	29	40	35
24	9	20 52	55	16 33	4 17	4	12	28	39	35
25	13	21 3	22 8	17 13	1 s33	4	16	26	38	36
26	17	21 13	20	17 52	7 13	4	20	24	38	36
27	21	21 23	32	18 32	12 34	3	24	22	37	36
28	4 25	21 33	22 44	19 11	17 25	0 3	15 28	24 19	13 36	20 37
29	28	21 42	54	19 47	21 34	3	32	16	36	37
30	32	21 51	23 4	20 26	24 51	2	36	13	35	37
31	4 36	22 0	23 14	21 0	27 4	0 2	15 40	24 10	13 34	20 38

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1893

New Moon June 14th in ♊ 23° 35′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇
	° ♊′	° ♊′	° ♊′	° ♍′	° ♓′	° ♉′	° ♌′	° ♏′	° ♈′
1	11 9	19 13	6 36	1 28	6 R 3	16 1	11 48	7 R23	11 1	26 29
2	12 7	20 26	8 48	13 28	2	16	12 27	21	3	25
3	13 4	21 41	10 59	25 34	2	29	13 5	19	7	22
4	14 1	22 56	13 13	7 ♎50	2	42	13 42	18	8	19
5	14 59	24 8	15 23	20 18	1	55	14 20	16	10	16
6	15 56	25 23	17 36	3 ♐ 1	1	17 9	14 59	14	12	13
7	16 53	26 35	19 48	16 2	6 1	17 22	15 38	7 12	11 14	26 10
8	17 51	27 49	21 59	29 24	1	36	16 15	10	16	7
9	18 48	29 3	24 10	13♑10	1	50	16 53	9	18	3
10	19 46	0♋17	26 19	27 21	D 1	18 2	17 31	7	21	0
11	20 43	1 31	28 25	11♒57	2	16	18 10	5	23	25 57
12	21 40	2 43	0♋34	26 52	2	28	18 48	3	25	54
13	22 38	3 57	2 38	12♓ 1	2	41	19 26	2	28	51
14	23 35	5 11	4 40	27 15	6 3	18 55	20 5	7 1	11 30	25 47
15	24 32	6 23	6 41	12♋22	4	19 7	20 42	6 59	32	44
16	25 30	7 38	8 38	27 13	5	20	21 19	58	34	41
17	26 27	8 53	10 36	11♌40	6	33	21 59	57	36	38
18	27 24	10 6	12 32	25 39	7	46	22 36	55	38	35
19	28 21	11 20	14 24	9 ♍ 8	8	59	23 15	54	41	32
20	29 19	12 33	16 16	22 10	9	20 12	23 54	53	43	28
21	0♋16	13 46	18 4	4 ♎48	6 11	20 23	24 31	6 52	11 45	25 25
22	1 13	14 59	19 49	17 6	12	36	25 9	50	47	22
23	2 10	16 11	21 33	29 10	13	49	25 47	49	49	19
24	3 7	17 26	23 16	11♍ 4	14	21 1	26 26	48	51	16
25	4 5	18 42	24 54	22 54	16	13	27 2	47	54	13
26	5 2	19 55	26 31	4 ♐42	18	25	27 41	46	56	9
27	5 59	21 6	28 6	16 33	20	37	28 20	45	58	6
28	6 56	22 21	29 38	28 28	6 22	21 49	28 57	6 45	12 0	25 3
29	7 53	23 36	1 ♌ 7	10♑29	24	22 2	29 34	44	2	0
30	8 51	24 49	2 36	22 38	6 26	22 12	0♌12	6 43	12 4	24 57

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1893

Full Moon June 29th in ♈ 7° 53′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ S	♄ S	♃ N	♂ N	♅ S	♆ N
1	4 40	22 8	23 23	21 33	28 3	0 3	15 44	24 7	13 33	20 38
2	44	16	30	22 3	27 43	3	48	3	32	38
3	48	23	37	33	26 5	3	52	23 59	32	38
4	52	30	45	23 2	23 12	3	56	56	31	39
5	56	37	50	25	19 13	3	59	51	31	39
6	5 0	43	55	48	14 18	3	16 3	47	31	39
7	5 4	22 49	24 1	24 10	8 39	0 3	16 7	43	13 30	20 40
8	8	54	4	25	2 28	3	11	38	30	40
9	12	59	40	7	4 N 2	3	14	34	29	40
10	16	23 4	10	53	10 31	4	18	29	28	41
11	20	8	11	59	16 39	4	22	24	28	41
12	24	12	12	25 5	21 55	4	26	19	27	41
13	28	15	13	11	25 48	5	29	14	27	42
14	5 32	23 18	24 13	25 9	27 50	0 5	16 32	9	13 26	20 42
15	35	21	11	7	27 47	6	35	3	25	42
16	39	23	9	5	25 43	7	39	22 57	25	43
17	43	24	7	24 57	22 1	7	43	50	24	43
18	47	26	3	48	17 10	8	46	44	24	43
19	51	27	23 59	39	11 38	8	50	38	24	44
20	55	27	53	24	5 46	9	53	32	23	44
21	5 59	23 27	23 48	24 9	0 s10	0 10	16 56	25	13 23	20 44
22	6 3	27	43	23 54	5 56	11	17 0	18	23	45
23	7	26	36	35	11 23	12	3	11	22	45
24	11	25	28	15	16 22	13	6	3	22	45
25	15	24	20	22 55	20 41	13	9	21 56	22	45
26	19	22	11	32	24 10	14	12	49	21	46
27	23	19	1	8	26 38	15	15	41	21	46
28	6 27	23 16	22 51	21 44	27 54	0 16	17 18	33	13 21	20 46
29	31	13	39	15	27 52	17	21	24	20	46
30	6 35	23 10	22 27	20 46	26 30	0 18	17 24	21 14	13 20	20 47

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1893

New Moon July 13th in ♋ 21° 14′

Longitude of the Planets

D	☉ ° ♋′	☿ ° ♋′	♀ ° ♌′	♂ ° ♒′	♃ ° ♑′	♄ ° ♉′	♅ ° ♌′	♆ ° ♏′	♇ ° Π′	♈ ° ♈′
1	9 48	26 0	4 0	4 56	6 28	22 25	0 50	6 R42	12 6	24 54
2	10 45	27 13	5 22	17 23	30	37	1 28	42	8	50
3	11 42	28 27	6 43	0 ♓ 1	33	47	2 8	41	10	47
4	12 39	29 40	8 0	12 51	36	23 0	2 45	40	12	44
5	13 37	0♌53	9 16	25 55	39	11	3 24	40	14	41
6	14 34	2 8	10 28	9 ♈16	41	24	4 1	39	16	38
7	15 31	3 21	11 39	22 56	6 43	23 35	4 38	6 39	12 18	24 35
8	16 28	4 35	12 46	6 ♉56	46	45	5 17	39	20	31
9	17 25	5 48	13 51	21 17	50	56	5 56	39	22	28
10	18 23	7 1	14 52	5 Π57	53	24 8	6 34	38	24	25
11	19 20	8 16	15 52	20 50	57	18	7 11	38	26	21
12	20 17	9 26	16 46	5 ♋50	7 0	29	7 49	38	27	18
13	21 14	10 40	17 39	20 48	3	39	8 28	38	29	15
14	22 12	11 55	18 29	5 ♌33	7 6	24 50	9 5	6 38	12 31	24 12
15	23 9	13 7	19 15	19 59	10	25 0	9 43	D38	33	9
16	24 6	14 20	19 56	3 ♍59	14	11	10 21	38	35	6
17	25 3	15 34	20 36	17 31	17	21	10 59	38	37	3
18	26 1	16 47	21 9	0 ♎35	20	32	11 36	38	38	0
19	26 58	18 3	21 40	13 15	24	42	12 15	38	40	23 56
20	27 55	19 14	22 6	25 35	29	52	12 54	38	42	53
21	28 52	20 29	22 28	7 ♍39	7 33	26 2	13 31	6 39	12 44	23 50
22	29 50	21 41	22 46	19 34	37	11	14 10	39	45	47
23	0♌47	22 53	22 58	1 ♐23	41	21	14 47	40	46	43
24	1 44	24 7	23 5	13 13	46	31	15 26	40	48	40
25	2 42	25 21	23 7	25 17	50	40	16 4	41	50	37
26	3 39	26 33	23R 5	7 ♑ 8	55	50	16 40	41	52	34
27	4 36	27 48	22 56	19 18	59	59	17 19	42	54	31
28	5 34	29 0	22 43	1 ♒39	8 3	27 8	17 57	6 43	12 55	23 28
29	6 31	0♍13	22 27	14 12	7	17	18 36	43	56	24
30	7 28	1 26	22 3	26 55	12	26	19 13	44	57	21
31	8 26	2 39	21 37	9 ♓50	8 17	27 35	19 52	6 45	12 59	23 18

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1893

Full Moon July 28th in ♒ 5° 34′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ S	♄ S	♃ N	♂ N	♅ S	♆ N
1	6 39	23 6	22 16	20 26	23 51	0 19	17 27	21 9	13 21	20 47
2	43	23 1	2	19 58	20 4	20	30	0	21	47
3	46	22 56	21 49	19 30	15 21	22	33	20 51	21	47
4	50	22 51	36	19 2	9 53	23	36	43	20	48
5	54	22 45	20	18 33	3 53	24	39	34	20	48
6	58	22 39	5	18 4	2 N24	26	42	25	20	48
7	7 2	22 33	20 50	17 35	8 45	0 27	17 44	20 16	13 20	20 48
8	6	22 26	32	17 6	14 49	28	47	6	20	48
9	10	22 19	15	16 37	20 15	29	50	19 57	20	48
10	14	22 12	19 58	16 8	24 34	31	52	48	20	49
11	18	22 4	40	15 40	27 17	33	54	38	20	49
12	22	21 55	21	15 12	28 4	34	57	28	20	49
13	26	21 47	2	14 44	26 47	35	18 0	18	20	50
14	7 30	21 37	18 41	14 17	23 39	0 36	18 2	19 8	13 20	20 50
15	34	21 28	21	13 51	19 7	38	5	18 58	20	50
16	38	21 18	1	13 25	13 39	40	8	48	20	50
17	42	21 8	17 39	13 2	7 41	42	10	38	20	50
18	46	20 58	19	12 38	1 36	43	13	27	20	50
19	50	20 47	16 55	12 14	4 S23	45	15	16	20	51
20	53	20 35	32	11 59	10 2	47	17	5	20	51
21	7 57	20 24	16 9	11 35	15 13	0 49	18 19	17 54	13 20	20 51
22	8 1	20 12	15 46	11 15	19 45	51	21	43	20	51
23	5	20 0	23	11 0	23 28	53	23	31	20	51
24	9	19 47	14 58	10 45	26 12	55	26	20	20	51
25	13	19 34	33	10 30	27 47	56	28	9	21	51
26	17	19 21	8	10 21	28 4	58	30	16 58	21	51
27	21	19 7	13 42	10 12	27 0	1 0	32	46	21	51
28	8 25	18 53	13 16	10 4	24 38	1 2	18 34	16 34	13 22	20 52
29	29	18 39	12 50	10 2	21 3	4	36	22	22	52
30	33	18 25	23	10 0	16 27	6	38	10	22	52
31	8 37	18 10	11 56	9 59	11 3	1 8	18 40	15 58	13 22	20 53

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1893

New Moon August 11th in ♌ 18° 58′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇
	° ♌′	° ♍′	° ♌′	° ♐′	° ♓′	° ♉′	° ♌′	° ♍′	° ♊′	° ♈′
1	9 23	3 53	21R 6	22 56.8	24	27 44	20 29	6 46	13 0	23 15
2	10 21	5 6	20 31	6 ♈14	27	52	21 8	47	1	11
3	11 18	6 18	19 48	19 43	32	28 0	21 46	48	3	8
4	12 16	7 32	19 5	3 ♉26	37	9	22 23	49	5	5
5	13 13	8 46	18 23	17 22	43	17	23 1	50	6	2
6	14 11	9 59	17 34	1 ♊33	48	25	23 41	51	7	22 59
7	15 8	11 11	16 47	15 55	8 54	28 31	24 18	6 52	13 8	22 56
8	16 6	12 24	15 58	0 ♋28	59	39	24 57	54	10	52
9	17 3	13 38	15 11	15 5	9 4	46	25 34	55	11	49
10	18 1	14 50	14 26	29 40	8	55	26 12	56	12	46
11	18 58	16 2	13 45	14♌ 6	15	29 2	26 51	58	13	43
12	19 56	17 16	13 5	28 17	20	8	27 28	59	14	40
13	20 54	18 28	12 28	12♍ 8	25	15	28 6	7 1	15	37
14	21 51	19 41	11 58	25 34	9 31	29 21	28 44	7 2	13 16	22 33
15	22 49	20 53	11 36	8 ♎37	37	29	29 23	4	17	30
16	23 47	22 6	11 17	21 17	43	33	0 ♍ 0	5	19	27
17	24 45	23 18	11 6	3 ♏37	48	41	0 40	7	20	24
18	25 42	24 32	11 3	15 43	54	48	1 17	9	21	21
19	26 40	25 46	11D 7	27 39	10 0	54	1 54	11	21	18
20	27 38	26 58	11 18	9 ♐30	7	58	2 33	12	22	14
21	28 36	28 10	11 39	21 22	10 13	0 ♊ 4	3 12	7 14	13 23	22 11
22	29 34	29 23	12 6	3 ♑19	20	9	3 50	16	24	8
23	0♍31	0♎35	12 42	15 25	26	15	4 28	18	24	5
24	1 29	1 49	13 24	27 43	32	20	5 6	20	25	2
25	2 27	3 0	14 13	10♒15	38	25	5 44	22	26	21 59
26	3 25	4 12	15 11	23 2	44	30	6 23	24	26	55
27	4 23	5 25	16 14	6 ♓ 4	52	34	7 1	26	27	52
28	5 21	6 38	17 23	19 20	10 57	0 38	7 39	7 28	13 28	21 49
29	6 19	7 49	18 40	2 ♈49	11 5	44	8 17	31	28	46
30	7 17	9 4	20 5	16 29	11	47	8 56	33	29	43
31	8 15	10 16	21 33	0 ♉17	11 18	0 51	9 34	7 35	13 30	21 40

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1893

Full Moon August 27th in ♌ 4° 23′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		N	N	N	S	S	N	N	S	N
1	8 41	17 55	11 29	10 3	5 5	1 10	18 41	15 46	13 23	20 53
2	45	17 39	11 2	11	1 N11	12	43	33	23	53
3	49	17 24	10 34	19	7 31	15	45	21	23	53
4	53	17 8	10 6	28	13 35	17	47	9	24	53
5	57	16 52	9 38	43	19 6	19	49	14 57	24	53
6	9 0	16 35	9 9	58	23 38	21	50	44	24	53
7	9 4	16 18	8 40	11 12	26 46	1 23	18 52	14 31	13 25	20 54
8	8	16 1	8 12	32	28 9	25	53	18	25	54
9	12	15 44	7 41	52	27 35	27	55	5	25	54
10	16	15 26	7 12	12 12	25 7	30	56	13 52	26	54
11	20	15 9	6 43	34	21 5	32	57	38	26	54
12	24	14 51	6 13	56	15 53	35	59	25	26	54
13	28	14 32	5 43	13 17	9 59	37	19 0	12	28	54
14	9 32	14 14	5 12	13 38	3 48	1 39	19 1	12 58	13 28	20 54
15	36	13 55	4 42	59	2 S23	41	2	44	28	54
16	40	13 36	4 12	14 21	8 18	44	4	31	29	55
17	44	13 17	3 42	34	13 46	47	5	18	29	55
18	48	12 57	3 11	57	18 35	49	6	4	30	55
19	52	12 38	2 40	15 14	22 37	51	8	11 50	31	55
20	56	12 18	2 9	26	25 40	53	9	36	31	55
21	10 0	11 58	1 38	15 38	27 36	1 56	19 10	11 22	13 32	20 55
22	4	11 38	1 7	49	28 17	59	11	8	33	55
23	8	11 18	0 36	53	27 37	2 1	12	10 54	33	55
24	11	10 57	0 5	58	25 36	4	13	40	34	55
25	15	10 36	0 S26	16 2	22 20	7	14	26	35	55
26	19	10 15	0 57	15 56	17 56	10	15	11	35	55
27	23	9 54	1 28	52	12 38	12	16	9 57	36	55
28	10 27	9 33	1 59	15 48	6 40	2 14	19 16	9 43	13 37	20 55
29	31	9 12	1 30	34	0 18	17	17	29	38	55
30	35	8 50	1 1	20	6 N10	19	18	14	39	55
31	10 39	8 29	0 32	15 6	12 25	2 22	19 19	8 59	13 40	20 55

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1893

New Moon September 10th in ♍ 17° 58′

Longitude of the Planets

D	☉	♀	♂	♃	♄	♅	♆	♇	♈	☊
	° ♍′	° ♎′	° ♌′	° ♉′	° ♎′	° ♊′	° ♍′	° ♍′	° ♊′	° ♑′
1	9 13	11 27	23 6	14 14	11 23	0 55	10 12	7 37	13 30	21 37
2	10 11	12 40	24 42	28 18	30	59	10 51	40	31	34
3	11 9	13 53	26 20	12♊27	36	1 1	11 28	43	31	30
4	12 8	15 5	28 4	26 39	44	4	12 7	46	32	27
5	13 6	16 15	29 53	10♋54	51	7	12 46	49	32	24
6	14 4	17 29	1♍40	25 7	58	11	13 24	51	32	21
7	15 2	18 40	3 31	9 ♌15	12 4	1 13	14 2	7 53	13 33	21 18
8	16 1	19 52	5 23	23 14	10	15	14 41	55	33	14
9	16 59	21 5	7 15	7 ♍ 1	17	17	15 18	58	33	11
10	17 58	22 16	9 8	20 31	24	19	15 56	8 1	33	8
11	18 56	23 29	11 2	3 ♎43	32	21	16 36	3	33	5
12	19 54	24 41	12 57	16 36	39	23	17 14	6	34	2
13	20 53	25 52	14 51	29 11	46	24	17 53	8	34	20 58
14	21 51	27 5	16 44	11♏30	12 53	1 25	18 31	8 11	13 34	20 55
15	22 50	28 16	18 37	23 35	59	26	19 8	14	34	52
16	23 48	29 29	20 30	5 ♐32	13 6	26	19 47	17	℞34	49
17	24 47	0♏41	22 22	17 24	13	27	20 26	20	34	45
18	25 46	1 51	24 13	29 16	21	27	21 5	24	34	42
19	26 44	3 4	26 2	11♑14	28	27	21 42	27	34	39
20	27 43	4 16	27 52	23 21	36	27	22 21	30	34	36
21	28 42	5 27	29 41	5 ♒42	13 42	1 ℞27	22 59	8 33	13 34	20 33
22	29 40	6 38	1♎29	18 19	49	27	23 39	36	33	30
23	0♎39	7 52	3 15	1 ♓16	56	26	24 18	40	33	26
24	1 38	9 3	5 2	14 33	14 4	25	24 55	43	33	23
25	2 37	10 15	6 46	28 9	11	24	25 34	45	32	20
26	3 36	11 24	8 30	12♈ 2	19	23	26 13	48	32	17
27	4 35	12 36	10 14	26 8	24	22	26 52	52	32	14
28	5 34	13 49	11 56	10♉24	14 [illegible]	1 20	27 31	8 55	13 31	20 11
29	6 33	14 59	13 38	24 46	41	18	28 9	59	31	8
30	7 32	16 11	15 18	9 ♊ 8	14 48	1 16	28 48	9 3	13 31	20 5

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1893

Full Moon September 25th in ♈ 2° 37′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		N	S	N	N	S	N	N	S	N
1	10 43	8 7	4 3	14 46	18 8	2 25	19 19	8 45	13 40	20 56
2	47	7 45	4 34	14 20	22 54	28	20	30	41	56
3	51	7 23	5 4	13 54	26 21	31	21	15	42	56
4	55	7 1	5 35	13 28	28 9	33	21	0	43	56
5	59	6 39	6 6	12 47	28 6	36	21	7 46	44	56
6	11 3	6 16	6 36	12 17	26 12	38	22	31	44	56
7	11 7	5 54	7 6	11 47	22 40	2 41	19 22	7 16	13 45	20 56
8	11	5 31	7 36	11 7	17 53	43	22	1	46	56
9	15	5 8	8 6	10 28	12 14	46	23	6 46	47	55
10	18	4 46	8 36	9 49	6 7	49	23	31	48	55
11	22	4 23	9 6	9 5	0 S 9	52	23	15	49	55
12	26	4 0	9 36	8 22	6 15	55	24	0	50	55
13	30	3 37	10 5	7 39	11 59	58	24	5 45	51	55
14	11 34	3 14	10 34	6 53	17 8	3 1	19 24	5 29	13 52	20 55
15	38	2 51	11 3	6 7	21 30	3	24	14	53	55
16	42	2 27	11 32	5 21	24 56	6	24	4 59	54	55
17	46	2 4	12 0	4 34	27 16	9	24	43	55	55
18	50	1 41	12 28	3 47	28 22	12	24	28	56	55
19	54	1 18	12 56	3 0	28 9	15	24	13	57	55
20	58	0 54	13 23	2 12	26 35	18	24	3 57	58	55
21	12 2	0 31	13 50	1 25	23 45	3 21	19 23	3 42	13 59	20 54
22	6	0 8	14 18	0 38	19 44	23	23	27	14 0	54
23	10	0 S16	14 44	0 S 6	14 42	24	23	12	1	54
24	14	0 39	15 11	0 53	8 53	27	23	2 56	2	54
25	18	1 3	15 37	1 44	2 31	31	22	40	3	54
26	22	1 26	16 2	2 30	4 N 7	34	22	25	4	54
27	26	1 49	16 27	3 16	10 39	37	22	9	5	54
28	12 29	2 13	16 53	4 2	16 44	3 40	19 21	1 53	14 6	20 54
29	33	2 36	17 17	4 50	21 55	43	21	37	7	53
30	12 37	2 59	17 41	5 40	25 48	3 46	19 21	1 20	14 8	20 53

Fellowship Press, Oceanside, Calif.

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1893

Eclipse of Sun October 9th in ♎ 16° 24′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♎′	° ♏′	° ♎′	° ♐′	° ♓′	° ♎′	° ♓′	° ♍′	° ♏′	° ♓′	° ♈′
1	8 31	17 21	16 58	23 27	14 54	1 R14	29 25	9 5	13R30	20 2
2	9 30	18 33	18 37	7 ♋41	15 3	10	0 ♎ 3	9	29	19 58
3	10 29	19 44	20 15	21 47	10	8	0 42	12	28	55
4	11 28	20 56	21 53	5 ♌43	17	5	1 22	16	28	52
5	12 27	22 7	23 29	19 28	24	3	2 1	19	28	48
6	13 26	23 17	25 3	♍ 1	31	0	2 41	22	27	45
7	14 26	24 28	26 39	16 20	15 39	0 57	3 19	9 25	13 26	19 42
8	15 25	25 38	28 13	29 26	46	54	3 58	29	25	39
9	16 24	26 49	29 47	12 ♎18	53	49	4 37	33	24	36
10	17 24	27 59	1 ♍ 19	24 55	16 0	45	5 15	36	24	33
11	18 23	29 10	2 52	7 ♍20	9	41	5 54	40	24	29
12	19 23	0 ♐ 20	4 22	19 32	15	37	6 34	44	23	26
13	20 22	1 30	5 54	1 ♐35	23	33	7 13	47	22	23
14	21 22	2 41	7 24	13 30	16 31	0 28	7 51	9 50	13 21	19 20
15	22 21	3 51	8 51	25 21	38	23	8 31	53	20	17
16	23 21	5 2	10 20	7 ♑13	45	18	9 9	57	19	14
17	24 20	6 12	11 48	19 9	52	13	9 48	10 1	18	10
18	25 20	7 22	13 15	1 ♒13	59	8	10 28	5	17	7
19	26 20	8 32	14 40	13 32	17 5	1	11 7	9	16	4
20	27 19	9 42	16 6	26 8	13	29 55	11 46	13	15	1
21	28 19	10 52	17 31	9 ♓ 6	17 21	♉ 50	12 25	10 17	13 14	18 58
22	29 19	12 1	18 55	22 28	28	45	13 4	20	13	55
23	0 ♍ 19	13 11	20 18	6 ♈14	36	38	13 43	24	12	51
24	1 18	14 21	21 41	20 24	44	31	14 22	27	10	48
25	2 18	15 31	23 2	4 ♉53	50	25	15 0	31	9	45
26	3 18	16 40	24 22	19 37	57	19	15 40	34	8	42
27	4 18	17 50	25 40	4 ♊27	18 5	13	16 19	38	6	39
28	5 18	19 0	26 59	19 15	18 12	29 6	16 57	10 42	13 5	18 36
29	6 18	20 7	28 16	3 ♋56	19	28 58	17 36	45	4	32
30	7 18	21 16	29 32	18 23	27	50	18 16	49	3	29
31	8 18	22 26	0 ♐ 46	2 ♌33	18 34	28 43	18 55	10 53	13 2	18 26

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1893

Full Moon October 25th in ♉ 2° 18′

Declination of the Planets

D	S T	☉	☿	♂	☽	♄	♅	♂	♃	♆
		S	S	S	N	S	N	N	S	N
1	12 41	3 23	18 5	6 17	28 1	3 48	19 20	1 6	14 9	20 54
2	45	3 46	25	7 0	28 23	51	19	0 49	10	54
3	49	4 9	51	7 43	26 54	54	19	34	11	54
4	53	4 32	19 14	8 27	23 46	57	18	19	13	54
5	57	4 56	36	9 9	19 20	59	18	3	14	54
6	13 1	5 19	54	9 51	13 59	4 2	17	s12	15	54
7	13 5	5 42	20 18	10 32	8 4	4 5	19 16	0 28	14 16	20 53
8	9	6 5	38	11 12	1 54	8	15	44	17	53
9	13	6 27	58	11 52	4 s14	11	14	1 0	18	53
10	17	6 50	21 18	12 31	10 6	14	13	15	19	53
11	21	7 13	36	13 9	15 29	17	12	31	20	53
12	25	7 36	54	13 47	20 10	20	11	47	21	53
13	29	7 58	22 13	14 24	23 57	22	10	2 2	23	53
14	13 33	8 20	22 30	14 59	26 40	4 25	19 9	2 18	14 24	20 53
15	36	8 43	47	15 34	28 11	28	8	34	25	53
16	40	9 5	23 3	16 10	28 25	30	7	49	26	52
17	44	9 27	18	16 43	27 19	33	6	3 5	27	52
18	48	9 49	33	17 16	24 57	36	5	21	28	52
19	52	10 10	48	17 48	21 24	39	4	36	30	52
20	56	10 32	24 1	18 18	16 49	42	3	52	31	52
21	14 0	10 53	24 14	18 49	11 21	4 45	19 2	4 8	14 32	20 52
22	4	11 14	27	19 19	5 13	47	0	23	33	51
23	8	11 35	38	19 46	1 N21	50	18 59	38	34	51
24	12	11 56	49	40 13	8 2	52	57	53	35	51
25	16	12 17	25 0	20 40	14 28	55	56	5 9	37	51
26	20	12 38	9	21 4	20 11	58	55	24	38	51
27	24	12 58	19	21 28	24 41	5 1	54	39	39	51
28	14 28	13 18	25 28	21 51	27 33	5 3	18 52	5 55	14 40	20 50
29	32	13 38	35	22 10	28 28	6	50	6 11	42	50
30	36	13 58	42	22 30	27 24	9	48	27	43	50
31	14 40	14 17	25 49	22 52	24 35	5 11	18 47	6 44	14 44	20 50

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1893

New Moon November 8th in ♏ 16° 20′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇
	° ♏′	° ♐′	° ♐′	° ♌′	° ♎′	° ♈′	° ♓′	° ♏′	° ♊′	° ♈′
1	9 18	23 36	1 58	16 24	18 41	28R37	19 36	10 57	13R 0	18 23
2	10 18	24 45	3 7	29 55	48	29	20 15	11 1	12 59	19
3	11 18	25 54	4 15	13♏ 9	55	22	20 55	5	58	16
4	12 19	27 3	5 21	26 7	19 1	15	21 34	9	57	13
5	13 19	28 9	6 22	8 ♎51	8	7	22 13	13	55	10
6	14 19	29 19	7 23	21 22	16	27 59	22 53	17	54	7
7	15 19	0♑27	8 20	3 ♏43	19 22	27 50	23 32	11 21	12 52	18 4
8	16 20	1 33	9 13	15 54	29	42	24 12	24	51	18 0
9	17 20	2 41	10 0	27 58	35	35	24 51	27	49	57
10	18 20	3 49	10 45	9 ♐56	42	27	25 30	32	47	17 54
11	19 21	4 58	11 24	21 49	50	18	26 10	36	46	51
12	20 21	6 5	11 57	3 ♑39	56	10	26 49	39	44	48
13	21 22	7 12	12 23	15 30	20 3	2	27 29	42	43	45
14	22 22	8 19	12 42	27 25	20 9	26 53	28 8	11 46	12 41	17 41
15	23 23	9 26	12 53	9 ♒27	15	47	28 48	50	39	38
16	24 23	10 33	12R56	21 41	23	39	29 28	54	38	35
17	25 24	11 40	12 48	4 ♓11	29	31	0 ♏ 7	57	36	32
18	26 24	12 46	12 31	17 2	35	23	0 47	12 2	35	29
19	27 25	13 51	12 3	0 ♈19	41	15	1 27	5	33	26
20	28 26	14 57	11 24	14 2	48	6	2 6	8	31	22
21	29 26	16 2	10 35	28 14	20 54	25 58	2 46	12 11	12 30	17 19
22	0 ♐ 27	17 9	9 38	12 ♉53	21 1	50	3 26	15	28	16
23	1 27	18 14	8 29	27 52	7	42	4 6	19	27	13
24	2 28	19 19	7 15	13♊ 3	13	34	4 46	22	25	10
25	3 29	20 22	5 55	28 16	19	26	5 26	25	23	7
26	4 30	21 28	4 33	13♋21	24	17	6 6	29	21	3
27	5 30	22 31	3 12	28 9	30	10	6 46	34	20	0
28	6 31	23 36	1 51	12♌33	21 36	25 2	7 25	12 37	12 18	16 57
29	7 32	24 39	0 39	26 31	43	24 54	8 5	41	17	54
30	8 33	25 43	29♏ 9	10♍ 2	21 49	24 47	8 45	12 45	12 15	16 51

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1893

Full Moon November 23rd in ♊ 1° 27′

Declination of the Planets

D	S T	☉	☿	♀	☽	♄	♅	♂	♃	♆
		S	S	S	N	S	N	S	S	N
1	14 44	14 36	25 54	23 10	20 25	5 13	18 45	6 56	14 45	20 49
2	48	14 55	58	25	15 16	16	44	7 11	46	49
3	52	15 14	26 3	40	9 31	19	43	26	47	49
4	56	15 33	7	54	3 28	21	41	42	48	49
5	15 0	15 51	10	24 7	2 s36	24	39	57	49	48
6	4	16 9	12	16	8 29	27	38	8 12	50	48
7	15 8	16 27	26 14	24 26	13 58	5 29	18 36	8 27	14 52	20 48
8	12	16 44	15	32	18 50	31	34	42	53	48
9	16	17 1	15	38	22 53	33	32	57	54	48
10	19	17 18	14	41	25 56	36	30	9 11	55	48
11	23	17 35	13	43	27 48	38	28	26	56	47
12	27	17 51	11	42	28 24	41	27	40	57	47
13	31	18 7	8	40	27 42	43	25	55	59	47
14	15 35	18 23	26 4	24 34	25 44	5 45	18 24	10 10	15 0	20 47
15	39	18 38	0	28	22 36	47	22	25	1	47
16	43	18 53	25 56	17	18 26	50	20	39	2	46
17	47	19 8	50	5	13 24	52	19	53	3	46
18	51	19 22	44	23 48	7 40	55	17	11 7	5	46
19	55	19 36	38	31	1 25	57	15	22	6	46
20	59	19 49	30	8	5 N 7	59	13	36	7	46
21	16 3	20 3	25 22	22 45	11 37	6 1	18 11	11 50	15 8	20 45
22	7	20 16	14	16	17 42	4	9	12 4	9	45
23	11	20 28	5	21 48	22 51	6	8	18	10	45
24	15	20 40	24 55	15	26 31	8	6	30	11	45
25	19	20 52	45	20 42	28 15	10	4	45	12	44
26	23	21 3	34	6	27 52	12	3	59	13	44
27	26	21 14	22	19 34	25 30	14	1	13 12	14	44
28	16 30	21 25	24 10	19 2	21 33	6 17	17 59	13 26	15 15	20 44
29	34	21 35	23 58	18 30	16 30	18	57	40	16	44
30	16 38	21 45	23 45	18 2	10 46	6 20	17 55	13 53	15 17	20 44

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1893

New Moon December 8th in ♐ 16°40′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇
	° ♐′	° ♑′	° ♏′	° ♏′	° ♒′	° ♓′	° ♏′	° ♏′	° ♈′
1	9 34	26 47	28R37	23 9	21 54	24R39	9 26	12 47	12R13	16 48
2	10 35	27 49	27 53	5 ♒56	59	31	10 7	51	11	44
3	11 35	28 51	27 18	18 25	22 6	23	10 47	55	9	41
4	12 36	29 53	26 55	0 ♏42	11	15	11 27	58	8	38
5	13 37	0♒54	26 44	12 49	15	7	12 7	13 1	7	34
6	14 38	1 55	26D43	24 50	20	0	12 47	4	5	31
7	15 39	2 55	26 53	6 ♐46	22 26	23 54	13 27	13 7	12 3	16 28
8	16 40	3 56	27 11	18 39	31	47	14 7	10	1	25
9	17 41	4 56	27 39	0 ♑30	36	41	14 48	14	11 59	22
10	18 42	5 56	28 13	12 22	41	33	15 28	17	58	19
11	19 43	6 56	28 54	24 15	47	28	16 8	21	57	15
12	20 44	7 54	29 42	6 ♒12	52	21	16 48	24	55	12
13	21 45	8 53	0 ♐35	18 15	57	15	17 28	27	53	9
14	22 47	9 51	1 32	0 ♓28	23 2	23 7	18 9	13 30	11 51	16 6
15	23 48	10 48	2 33	12 54	7	1	18 49	33	50	3
16	24 49	11 45	3 38	25 38	12	22 56	19 29	36	48	0
17	25 50	12 41	4 47	8 ♈45	17	50	20 10	39	47	15 57
18	26 51	13 37	5 57	22 18	21	45	20 50	43	45	53
19	27 52	14 32	7 11	6 ♉19	25	40	21 30	46	43	50
20	28 53	15 25	8 27	20 50	30	35	22 11	49	41	47
21	29 54	16 19	9 43	5 ♊46	23 35	22 29	22 51	13 52	11 39	15 44
22	0♑55	17 12	11 2	21 0	39	24	23 31	55	38	41
23	1 56	18 5	12 22	6 ♋23	43	19	24 11	57	37	37
24	2 57	18 57	13 44	21 42	47	15	24 52	59	35	35
25	3 59	19 46	15 6	6 ♌46	51	11	25 32	14 2	34	31
26	5 0	20 36	16 29	21 26	55	8	26 13	4	32	28
27	6 1	21 25	17 54	5 ♍37	59	4	26 54	7	31	25
28	7 2	22 14	19 21	19 17	24 3	21 58	27 34	14 10	11 29	15 22
29	8 3	23 2	20 46	2 ♎29	6	55	28 15	13	27	18
30	9 4	23 48	22 13	15 16	9	52	28 55	15	26	15
31	10 5	24 35	23 40	27 42	24 12	21 49	29 36	14 18	11 25	15 12

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1893

Full Moon December 23rd in ♋ 1° 56′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	S	S	N	S	N	S	S	N
1	16 42	21 54	23 30	17 39	4 45	6 22	17 54	14 6	15 19	20 43
2	46	22 3	23 15	24	1 s20	24	52	19	20	43
3	50	11	23 0	9	7 13	26	50	32	21	43
4	54	19	22 46	16 54	12 44	28	49	45	22	42
5	58	27	22 29	52	17 42	30	47	58	23	42
6	17 1	34	22 13	50	21 55	32	46	15 11	24	42
7	17 5	22 41	21 57	16 48	25 12	6 34	17 44	15 23	15 25	20 42
8	9	47	21 40	56	27 22	36	42	35	26	42
9	13	53	21 22	17 4	28 17	38	40	47	27	41
10	17	59	21 4	13	27 53	39	39	16 0	28	41
11	21	23 3	20 46	28	26 13	41	37	12	29	41
12	25	8	20 27	43	23 22	43	36	24	30	41
13	29	12	20 8	58	19 29	44	35	36	31	41
14	17 33	23 16	19 48	18 17	14 45	6 46	17 34	16 48	15 32	20 41
15	37	19	19 28	35	9 21	47	32	17 0	33	41
16	41	21	19 8	54	3 26	49	31	11	33	40
17	45	23	18 48	19 14	2 N48	50	30	22	34	40
18	49	25	18 27	34	9 7	52	29	33	35	40
19	53	26	18 6	53	15 13	53	28	45	36	39
20	57	27	17 44	20 13	20 41	54	27	56	37	39
21	18 1	23 27	17 23	20 33	25 1	6 55	17 26	18 7	15 38	20 39
22	5	27	17 2	52	27 40	57	25	17	39	39
23	9	26	16 40	21 10	28 14	59	24	28	40	39
24	12	25	16 18	28	26 38	7 0	23	39	41	38
25	16	24	15 56	46	23 8	1	22	49	41	38
26	20	22	15 33	22 2	18 14	2	22	59	42	38
27	24	19	15 11	18	12 29	3	21	19 9	43	38
28	18 28	23 16	14 49	22 34	6 19	7 4	17 20	19 19	15 43	20 37
29	32	13	14 27	47	0 5	5	20	28	44	37
30	36	9	14 4	23 0	5 s58	7	19	38	45	37
31	18 40	23 4	13 41	23 14	11 38	7 8	17 18	19 47	15 46	20 37

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	35	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5692	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1998	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3138
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3395	16

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	82
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	10	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	56	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1894

New Moon January 7th in ♑ 17° 14′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♑′	° ♐′	° ♑′	° ♐′	° ♏′	° ♒′	° ♉′	° ♍′	° ♊′	° ♈′
1	11 7	25 17	25 7	9 53	24 17	21R47	0 19	14 21	11R24	15 9
2	12 8	26 0	26 34	21 54	20 44	1 0	22 23	21 6		
3	13 9	26 43	28 4	3 ♐48	23 41	1 40	23 21	21 3		
4	14 10	27 24	29 34	15 39	26 39	2 20	26 20	14 59		
5	15 11	28 5	1 ♑ 4	27 29	29 37	3 1	29 19	56		
6	16 13	28 43	2 35	9 ♑22	32 35	3 43	32 17	53		
7	17 14	29 19	4 6	21 17	24 35	21 33	4 25	14 35	11 16	14 50
8	18 15	29 55	5 38	3 ♒16	37	31	5 6	37	14	47
9	19 16	0♓30	7 9	15 20	40	29	5 46	40	13	44
10	20 17	1 4	8 41	27 31	43	28	6 26	43	12	40
11	21 18	1 36	10 14	9 ♓51	45	27	7 6	45	11	37
12	22 19	2 5	11 48	22 21	47	27	7 48	47	9	34
13	23 21	2 33	13 21	5 ♈ 6	49	26	8 30	49	8	31
14	24 22	3 0	14 56	18 9	24 51	21 26	9 11	14 51	11 7	14 28
15	25 23	3 25	16 30	1 ♉33	53	25	9 52	53	6	25
16	26 24	3 47	18 6	15 22	55	25	10 33	55	5′	21
17	27 25	4 9	19 40	29 36	57	D26	11 14	57	4	18
18	28 26	4 28	21 18	14♊15	59	27	11 55	59	3	15
19	29 27	4 45	22 53	29 13	25 0	28	12 36	15 0	2	12
20	0♒28	5 0	24 30	14♋24	2	29	13 18	2	1	8
21	1 29	5 13	26 9	29 37	25 3	21 30	13 59	15 3	11 0	14 5
22	2 30	5 24	27 49	14♌41	4	31	14 40	4	10 59	2
23	3 31	5 33	29 28	29 26	5	32	15 21	5	58	13 59
24	4 32	5 39	1 ♒ 8	13♍45	6	34	16 3	6	58	56
25	5 33	5 43	2 49	27 35	7	36	16 44	7	57	53
26	6 34	5 44	4 28	10♎55	8	38	17 25	8	56	49
27	7 35	5 R43	6 12	23 49	9	40	18 6	9	55	46
28	8 36	5 40	7 54	6 ♍20	25 9	21 42	18 48	15 9	10 54	13 43
29	9 37	5 33	9 37	18 33	10	45	19 29	10	54	40
30	10 38	5 25	11 21	0 ♐34	10	47	20 10	10	53	37
31	11 39	5 13	13 5	12 27	25 11	21 50	20 52	15 11	10 52	13 34

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1894

Full Moon January 21st in ♌ 1° 29′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		S	S	S	S	S	N	S	S	N
1	18 44	22 59	13 18	23 25	16 44	7 9	17 18	19 57	15 46	20 37
2	48	54	12 56	35	21 7	9	18	20 6	47	37
3	52	48	12 33	44	24 36	10	17	15	48	37
4	56	42	12 13	51	27 0	11	17	23	48	37
5	19 0	35	11 48	59	28 11	12	16	32	49	36
6	4	28	11 25	24 4	28 4	13	16	40	50	36
7	19 8	22 21	11 3	24 8	26 39	14	17 16	20 49	15 51	20 36
8	12	13	10 41	10	24 2	14	16	57	51	36
9	16	4	10 19	13	20 20	15	15	21 5	52	36
10	19	21 55	9 59	12	15 45	15	15	13	52	36
11	23	46	9 36	12	10 29	16	15	20	53	36
12	27	36	9 15	9	4 44	17	15	28	53	36
13	31	26	8 54	7	1 N20	18	16	35	54	35
14	19 35	21 15	8 34	24 1	7 28	18	17 16	21 41	15 54	20 35
15	39	5	8 14	23 55	13 28	19	16	48	55	35
16	43	20 53	7 53	47	18 59	19	16	55	55	35
17	47	41	7 34	38	23 36	19	17	22 2	56	35
18	51	29	7 16	27	26 52	19	17	8	56	35
19	55	17	6 57	15	28 19	20	17	14	57	35
20	59	4	6 40	1	27 40	20	18	20	57	35
21	20 3	19 50	6 23	22 47	24 57	21	17 19	22 26	15 58	20 35
22	7	37	6 6	29	20 32	21	19	31	58	35
23	11	23	5 50	12	14 55	21	20	36	58	34
24	15	8	5 36	21 51	8 40	21	20	41	58	34
25	19	18 54	5 21	31	2 11	21	21	47	59	34
26	23	39	5 8	8	4 s11	21	21	52	59	34
27	27	23	4 55	20 45	10 10	21	23	56	16 0	34
28	20 30	18 7	4 44	20 18	15 34	21	17 23	23 0	16 0	20 34
29	34	17 51	4 32	19 52	20 13	21	25	4	1	34
30	38	35	4 23	23	23 58	21	25	8	1	34
31	20 42	17 18	4 13	18 53	26 39	21	17 27	23 12	16 1	20 34

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1894

New Moon February 5th in ♒ 16° 43′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇
	° ♒′	° ♓′	° ♒′	° ♐′	° ♑′	° ♉′	° ♐′	° ♏′	° ♊′
1	12 40	5 R 0	14 53	24 17	25 11	21 56	21 34	15 13	10R52	13 30
2	13 40	4 45	16 37	6 ♍ 8	11	59	22 17	14	51	27
3	14 41	4 25	18 24	18 2	11	22 3	22 58	15	50	24
4	15 42	4 5	20 12	0 ♒ 3	11	6	23 38	16	50	21
5	16 43	3 41	21 56	12 10	10	10	24 20	17	49	18
6	17 44	3 16	23 46	24 26	R10	14	25 0	18	49	14
7	18 44	2 48	25 36	6 ♓51	25 10	22 19	25 44	15 18	10 49	13 11
8	19 45	2 19	27 22	19 26	9	24	26 25	19	48	8
9	20 46	1 48	29 12	2 ♈11	9	29	27 4	19	48	5
10	21 47	1 15	0♓59	15 8	8	34	27 46	19	47	2
11	22 47	0 40	2 50	28 20	7	39	28 28	19	47	12 59
12	23 48	0 5	4 37	11 ♉46	6	44	29 11	20	47	55
13	24 49	29♒29	6 27	25 31	5	50	29 52	20	46	52
14	25 49	28 52	8 16	9 ♊33	25 3	22 55	0♈34	15 20	10 46	12 49
15	26 50	28 15	10 2	23 54	2	23 2	1 17	20	46	46
16	27 50	27 38	11 45	8 ♋29	1	8	1 58	20	45	43
17	28 51	27 2	13 27	23 15	24 59	14	2 40	20	45	40
18	29 51	26 24	15 6	8 ♌ 4	58	19	3 21	20	45	36
19	0♓52	25 49	16 44	22 48	56	25	4 3	R20	45	33
20	1 52	25 10	18 19	7 ♍19	54	31	4 45	20	D45	30
21	2 52	24 35	19 50	21 32	24 52	3 38	5 27	15 20	10 45	12 27
22	3 53	24 2	21 15	5 ♎20	50	45	6 9	20	45	24
23	4 53	23 30	22 34	18 44	48	52	6 52	20	45	21
24	5 53	23 0	23 49	1 ♏43	46 24	0	7 34	19	45	17
25	6 54	22 32	24 58	14 19	44	7	8 16	19	46	14
26	7 54	22 6	25 58	26 37	41	16	8 58	19	46	11
27	8 54	21 41	26 53	8 ♐42	38	24	9 39	18	46	8
28	9 54	21 21	27 38	20 38	24 36 24	32	10 20	15 18	10 46	12 5

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EPHEMERIS OF THE PLANETS' PLACES
Calculated for Mean Noon at Greenwich
February, 1894
Full Moon February 20th in ♍ 1° 52′
Declination of the Planets

D	S T	☉ ♒	☿ ♒	♂ ♑	☽ ♌	♄ S	♃ N	♂ S	♅ S	♆ N
1	20 46	17 1	4 5	18 21	28 9	7 21	17 28	23 16	16 2	20 34
2	50	16 44	3 59	17 47	28 20	21	29	19	2	34
3	54	16 26	52	17 13	27 14	20	30	22	2	34
4	58	16 8	48	16 36	24 51	20	31	25	2	34
5	21 2	15 50	44	15 59	21 21	19	33	28	2	34
6	6	15 32	42	15 19	16 54	19	35	30	2	34
7	21 10	15 13	3 40	14 39	11 42	7 19	17 36	23 32	16 3	20 34
8	14	14 54	43	13 56	5 57	19	38	34	3	34
9	18	14 35	41	13 14	0 N 7	18	39	36	3	34
10	22	14 15	43	12 29	6 17	18	40	38	3	34
11	26	13 56	46	11 44	12 18	17	42	40	3	34
12	30	13 36	51	10 57	17 52	16	44	41	3	34
13	34	13 15	56	10 10	22 38	15	45	42	4	34
14	21 37	12 55	4 3	9 21	26 14	7 15	17 47	23 42	16 4	20 34
15	41	12 35	10	8 33	28 13	14	48	43	4	34
16	45	12 14	18	7 44	28 19	13	50	43	4	34
17	49	11 53	27	6 54	26 24	12	52	44	4	34
18	53	11 32	37	6 5	22 41	12	54	43	4	34
19	57	11 10	47	5 16	17 33	11	55	43	4	34
20	22 1	10 49	58	4 28	11 28	10	57	42	4	34
21	22 5	10 27	5 9	3 40	4 56	7 9	17 59	23 42	16 4	20 34
22	9	10 5	21	2 54	1 s41	8	18 1	41	4	34
23	13	9 43	33	2 9	8 1	7	3	40	3	34
24	17	9 21	45	1 28	13 50	6	5	39	3	34
25	21	8 59	58	0 46	18 54	5	7	37	3	34
26	25	8 37	6 10	0 8	23 3	4	9	35	3	35
27	29	8 14	23	0 N27	26 8	3	11	33	2	35
28	22 33	7 51	6 35	0 58	28 0	7 2	18 14	23 31	16 2	20 35

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1894

New Moon March 7th in ♓ 16° 55′

Longitude of the Planets

D	☉	☿	☿	☽	♄	♃	♂	♅	♆	☊
	° ♓′	° ♒′	° ♓′	° ♍′	° ♑′	° ♉′	° ♍′	° ♏′	° ♊′	° ♈′
1	10 55	21R 1	28 13	2 30	24R34	24 40	11 2	15R17	10 48	12 2
2	11 55	20 44	28 42	14 22	31	48	11 44	17	48	11 58
3	12 55	20 30	29 1	26 19	28	57	12 28	16	49	55
4	13 55	20 18	29 9	8 ♒24	25	25 5	13 9	15	49	52
5	14 55	20 7	29 9	20 39	22	14	13 51	15	50	49
6	15 55	20 0	29R 0	3 ♓ 7	19	22	14 34	14	50	45
7	16 55	19 56	28 43	15 48	24 16	25 31	15 16	15 13	10 51	11 42
8	17 55	19 53	28 16	28 42	13	40	15 57	12	51	39
9	18 55	19 54	27 43	11♈49	10	49	16 40	11	52	36
10	19 55	19D55	27 4	25 9	6	59	17 21	10	52	33
11	20 55	20 0	26 17	8 ♉41	3	26 8	18 5	9	53	30
12	21 55	20 7	25 26	22 25	0	17	18 46	8	53	26
13	22 55	20 17	24 36	6 ♊19	23 56	27	19 29	7	54	23
14	23 54	20 28	23 38	20 22	23 52	26 37	20 10	15 6	10 55	11 20
15	24 54	20 42	22 40	4 ♋34	49	47	20 54	5	56	17
16	25 54	20 57	21 44	18 52	45	56	21 35	3	57	14
17	26 53	21 14	20 49	3 ♌13	41	27 6	22 18	2	58	11
18	27 53	21 33	19 56	17 32	37	17	23 0	1	59	7
19	28 53	21 55	19 8	1 ♍47	33	27	23 42	14 59	59	4
20	29 52	22 18	18 25	15 52	29	37	24 24	58	11 0	1
21	0♈52	22 44	17 44	29 43	23 25	27 48	25 4	14 56	11 1	10 58
22	1 51	23 10	17 9	13♎17	21	58	25 49	54	2	54
23	2 51	23 37	16 40	26 32	17	28 9	26 32	53	3	51
24	3 50	24 9	16 16	9 ♏27	13	20	27 14	51	4	48
25	4 49	24 40	15 59	22 4	9	31	27 56	50	5	45
26	5 49	25 13	15 49	4 ♐24	4	42	28 39	48	7	42
27	6 48	25 46	15 43	16 32	0	53	29 19	46	8	39
28	7 47	26 21	15D43	28 30	22 56	29 4	0 ♒ 2	14 44	11 9	10 36
29	8 47	26 58	15 51	10♑24	52	15	0 45	42	11	33
30	9 46	27 36	16 3	22 17	47	25	1 27	40	12	29
31	10 45	28 15	16 19	4 ♒15	22 42	29 37	2 10	14 39	11 13	10 26

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1894

Eclipse of Moon March 21st in ♎ 0° 52′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♅	♆	♇	♈
		S	S	N	S	S	N	S	S	N
1	22 37	7 29	6 47	1 25	28 35	7 1	18 16	23 29	16 2	20 35
2	41	7 6	59	46	27 51	0	18	26	2	35
3	44	6 43	7 11	2 7	25 49	6 58	20	23	2	35
4	48	6 20	23	19	22 37	57	22	20	2	35
5	52	5 57	34	32	18 24	56	25	17	1	36
6	56	5 33	44	34	13 19	55	27	13	1	36
7	23 0	5 10	7 55	2 37	7 37	6 53	18 29	23 10	16 1	20 36
8	4	4 47	8 5	30	1 29	51	31	8	1	36
9	8	4 23	14	23	4 N48	50	34	6	0	36
10	12	4 0	22	6	11 0	49	37	0	0	36
11	16	3 36	31	1 51	16 46	48	39	22 53	0	36
12	20	3 12	38	28	21 48	47	41	48	0	36
13	24	2 49	46	6	25 40	45	43	43	15 59	37
14	23 28	2 25	8 52	0 37	28 2	6 44	18 45	22 38	15 59	20 37
15	32	2 1	59	10	28 36	42	48	33	59	37
16	36	1 38	9 4	S 21	27 17	41	50	27	59	37
17	40	1 14	9	52	24 10	39	53	21	58	37
18	44	0 50	12 1	23	19 35	37	55	15	58	37
19	48	0 27	16	54	13 55	36	58	9	57	37
20	52	0 3	19 2	23	7 35	34	19 0	2	57	37
21	23 55	0 N21	9 21	2 53	1 0	6 32	19 3	21 56	15 56	20 38
22	59	0 44	22	3 20	5 S30	31	6	49	56	38
23	0 3	1 8	23	46	11 37	29	9	43	55	38
24	7	1 32	23	4 8	17 6	27	12	35	55	38
25	11	1 55	22	30	21 42	26	14	28	54	38
26	15	2 19	21	47	25 15	24	17	21	54	38
27	19	2 42	20	5 4	27 35	22	19	13	53	39
28	0 23	3 6	9 17	5 16	28 37	6 21	19 21	21 5	15 53	20 39
29	27	3 29	15	28	28 19	19	24	20 57	52	39
30	31	3 52	11	35	26 42	17	26	49	52	39
31	0 35	4 16	9 7	5 42	23 54	6 16	19 29	20 41	15 51	20 40

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1894

Eclipse of Sun April 6th in ♈ 16° 40′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇
	° ♈′	° ♒′	° ♓′	° ♒′	° ♑′	° ♉′	° ♒′	° ♏′	° ♊′	° ♈′
1	11 44	28 56	16 42	16 22	22R37	29 49	2 54	14R37	11 14	10 23
2	12 43	29 36	17 8	28 42	32	0 ♊ 0	3 36	35	15	20
3	13 42	0♓19	17 38	11♓17	28	12	4 19	33	17	17
4	14 41	1 2	18 13	24 11	24	24	5 1	30	18	13
5	15 41	1 48	18 51	7 ♈23	20	36	5 42	28	19	10
6	16 40	2 32	19 34	20 53	15	48	6 25	26	20	7
7	17 39	3 18	20 21	4 ♉39	22 9	1. 0	7 8	14 24	11 22	10 4
8	18 37	4 6	21 11	18 39	6	12	7 50	22	23	1
9	19 36	4 52	22 3	2 ♊49	1	24	8 33	19	25	9 58
10	20 35	5 41	22 59	17 4	21 57	36	9 14	17	27	54
11	21 34	6 30	23 58	1 ♋22	52	48	9 56	14	29	51
12	22 33	7 20	25 0	15 38	47	2 0	10 39	12	30	48
13	23 32	8 12	26 5	29 50	43	12	11 22	9	32	45
14	24 30	9 4	27 10	13♌56	21 38	2 24	12 5	14 7	11 34	9 42
15	25 29	9 55	28 20	27 53	34	38	12 47	5	35	39
16	26 28	10 49	29 33	11♍40	29	50	13 28	3	37	35
17	27 26	11 40	0 ♈47	25 17	23	3 2	14 12	0	39	32
18	28 25	12 35	2 4	8 ♎41	19	14	14 54	13 58	40	29
19	29 23	13 29	3 22	21 52	14	28	15 37	56	42	26
20	0 ♉22	14 23	4 42	4 ♏50	10	41	16 19	54	44	22
21	1 20	15 19	6 4	17 33	21 6	3 53	17 0	13 51	11 46	9 19
22	2 19	16 15	7 29	0 ♐ 3	2	4 7	17 44	48	47	16
23	3 17	17 12	8 55	12 20	20 57	20	18 27	46	49	13
24	4 16	18 9	10 23	24 26	53	33	19 9	43	51	10
25	5 14	19 5	11 53	6 ♑24	47	46	19 50	41	53	7
26	6 12	20 3	13 23	18 18	43	59	20 32	38	55	3
27	7 11	21 1	15 0	0 ♒11	39	5 13	21 15	35	57	0
28	8 9	21 59	16 35	12 8	20 35	5 26	21 58	13 32	11 59	8 57
29	9 7	22 58	18 12	24 14	29	38	22 40	30	12 1	54
30	10 5	23 57	19 51	6 ♓34	20 25	5 51	23 20	13 27	12 3	8 51

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1894

Full Moon April 20th in ♏ 0° 22′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♅	♂	☿	♆
		N	S	S	S	S	N	S	S	N
1	0 39	4 39	9 2	5 46	20 1	6 14	19 32	20 32	15 50	20 40
2	43	5 2	8 56	43	15 14	13	34	23	50	40
3	47	5 25	51	40	9 43	10	37	14	49	41
4	51	5 48	44	38	3 40	9	39	5	48	41
5	55	6 11	37	36	2 N41	7	42	19 56	47	41
6	59	6 33	28	27	9 3	5	45	47	47	41
7	1 2	6 56	8 20	5 19	15 8	6 3	19 48	19 37	15 46	20 42
8	6	7 18	11	6	20 32	2	51	27	46	42
9	10	7 41	8 2	4 54	24 50	0	53	17	45	42
10	14	8 3	7 52	37	27 39	5 59	56	7	45	42
11	18	8 25	42	21	28 3	57	58	18 57	44	43
12	22	8 47	31	2	27 45	55	20 0	46	43	43
13	26	9 9	19	3 42	25 3	53	3	36	42	43
14	1 30	9 30	7 8	3 20	20 51	5 52	20 6	18 25	15 42	20 43
15	34	9 52	6 54	2 57	15 33	50	8	15	41	44
16	38	10 13	41	31	9 32	48	11	4	40	44
17	42	10 34	28	5	3 8	46	14	17 53	39	44
18	46	10 55	14	1 36	3 S18	45	17	42	39	44
19	50	11 16	0	8	9 30	43	19	30	38	45
20	54	11 37	5 45	0 37	15 12	42	22	19	37	45
21	1 58	11 57	5 30	0 6	20 8	5 40	20 24	17 7	15 36	20 45
22	2 2	12 17	9	N 28	24 5	38	27	16 55	36	45
23	6	12 37	4 48	1 1	26 52	36	29	43	35	46
24	10	12 57	37	37	28 22	35	31	31	34	46
25	13	13 17	25	2 13	28 30	33	34	19	33	46
26	17	13 36	7	51	27 20	32	36	7	33	46
27	21	13 55	3 50	3 29	24 55	30	39	15 55	32	47
28	2 25	14 14	3 32	4 9	21 25	5 29	20 41	15 42	15 32	20 47
29	29	14 33	14	48	16 59	27	44	29	31	47
30	2 33	14 51	2 55	5 29	11 47	5 26	20 46	15 17	15 30	20 47

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1894

New Moon May 5th in ♉ 14° 56′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♃	♂	♅	♆	☊
	° ♉′	° ♓′	° ♈′	° ♓′	° ♒′	° ♊′	° ♐′	° ♍′	° ♊′	° ♈′
1	11 4	24 57	21 33	19 11	20R21	6 5	24 4	13R26	12 5	8 48
2	12 2	25 58	23 19	2 ♈10	17	18	24 46	23	7	44
3	13 0	26 58	25 3	15 33	13	32	25 29	20	9	41
4	13 58	27 59	26 50	29 19	9	45	26 11	18	11	38
5	14 56	28 59	28 39	13 ♉27	5	58	26 53	16	13	35
6	15 54	0 ♈ 1	0 ♉30	27 53	1	7 12	27 34	13	15	32
7	16 52	1 3	2 21	12♊31	19 57	7 25	28 15	13 11	12 17	8 29
8	17 50	2 5	4 16	27 14	53	38	28 58	9	19	25
9	18 48	3 7	6 12	11♋54	49	53	29 40	7	21	22
10	19 46	4 9	8 10	26 26	45	8 6	0♐23	4	23	19
11	20 44	5 12	10 10	10♌44	42	20	1 3	2	25	16
12	21 42	6 15	12 11	24 46	38	34	1 45	12 59	27	13
13	22 40	7 18	14 14	8 ♍32	35	47	2 29	57	30	10
14	23 38	8 21	16 18	22 2	19 31	9 1	3 9	12 54	12 32	8 6
15	24 36	9 25	18 25	5 ♎17	28	16	3 50	52	34	3
16	25 33	10 29	20 34	18 18	25	29	4 34	49	36	0
17	26 31	11 33	22 43	1 ♍ 7	21	42	5 15	46	38	7 57
18	27 29	12 37	24 51	13 45	18	57	5 57	44	40	54
19	28 27	13 42	27 5	26 13	15	10 11	6 39	41	42	51
20	29 24	14 46	29 15	8 ♐31	12	24	7 20	39	44	47
21	0♊22	15 51	1♊25	20 40	19 9	10 38	8 2	12 36	12 46	7 44
22	1 20	16 55	3 37	2 ♑42	7	52	8 43	34	48	41
23	2 17	18 1	5 49	14 38	4	11 6	9 24	31	51	38
24	3 15	19 6	8 0	26 30	2	20	10 4	29	53	34
25	4 13	20 11	10 10	8 ♒22	0	34	10 47	27	55	31
26	5 10	21 17	12 18	20 18	18 57	48	11 28	24	57	28
27	6 8	22 24	14 27	2 ♓22	54	12 2	12 8	22	59	25
28	7 5	23 31	16 34	14 39	18 52	12 15	12 49	12 20	13 1	7 22
29	8 3	24 37	18 38	27 14	50	29	13 32	18	3	19
30	9 0	25 43	20 40	10 ♈11	48	42	14 13	16	5	15
31	9 58	26 49	22 41	23 35	18 46	12 57	14 53	12 14	13 7	7 12

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1894

Full Moon May 19th in ♏ 28° 27′

Declination of the Planets

D	S T	☉ N	♀ S	☿ N	☽ S	♄ S	♃ N	♂ S	♅ S	♆ N
1	2 37	15 10	2 36	6 12	6 0	5 24	20 49	15 4	15 29	20 48
2	41	15 27	17	6 55	0 N12	23	51	14 51	29	48
3	45	15 45	1 58	7 38	6 35	21	54	38	28	48
4	49	16 3	38	8 22	12 51	20	56	25	27	48
5	53	16 20	18	9 7	18 37	19	58	12	26	49
6	57	16 37	0 58	9 52	23 27	18	21 0	13 58	26	49
7	3 1	16 53	0 37	10 38	26 52	5 16	21 3	13 45	15 25	20 50
8	5	17 10	16	11 24	28 28	15	5	32	24	50
9	9	17 26	N 5	12 10	28 4	13	8	18	23	51
10	13	17 42	26	12 57	25 44	12	10	5	23	51
11	17	17 57	47	13 44	21 48	11	12	12 51	22	51
12	20	18 12	1 9	14 30	16 42	9	14	37	21	51
13	24	18 27	30	15 16	10 51	8	17	23	20	52
14	3 28	18 42	1 52	16 2	4 36	5 7	21 19	12 9	15 20	20 52
15	32	18 56	2 14	16 48	1 S44	6	21	11 55	19	52
16	36	19 10	37	17 32	7 54	5	23	41	18	52
17	40	19 24	59	18 16	13 39	4	26	27	17	53
18	44	18 37	3 22	18 58	18 44	3	28	13	17	53
19	48	19 50	44	19 39	22 57	2	30	10 59	16	53
20	52	20 2	4 6	20 18	26 4	1	32	45	16	53
21	3 56	20 15	4 29	20 57	27 57	5 0	21 34	10 30	15 15	20 54
22	4 0	20 26	52	21 32	28 29	4 59	36	15	15	54
23	4	20 38	5 14	22 6	27 41	58	38	1	14	54
24	8	20 49	37	22 37	25 38	57	40	9 46	13	54
25	12	21 0	6 0	23 7	22 27	57	42	32	12	55
26	16	21 11	23	23 32	18 20	56	44	18	11	55
27	20	21 21	46	23 57	13 27	55	46	3	10	56
28	4 24	21 31	7 9	24 16	7 57	4 54	21 48	8 49	15 10	20 56
29	28	21 40	32	24 36	2 1	54	50	34	9	5.
30	31	21 49	54	24 51	4 N11	53	52	20	9	57
31	4 35	21 58	8 17	25 5	10 24	4 53	21 54	8 5	15 8	20 57

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1894

New Moon June 3rd in ♊ 12° 50′

Longitude of the Planets

D	☉	☿	☿	☽	♄	♅	♂	♃	♆	☊
	° ♊′	° ♈′	° ♊′	° ♉′	° ♒′	° ♊′	° ♓′	° ♍′	° ♊′	° ♈′
1	10 55	27 56	24 40	7 27	18R44	13 11	15 34	12R12	13 9	7 9
2	11 53	29 3	26 37	21 46	41	24	16 15	10	11	6
3	12 50	0 ♉ 9	28 30	6 ♊29	38	38	16 56	8	14	3
4	13 48	1 16	0♋23	21 28	37	52	17 37	6	16	0
5	14 45	2 23	2 12	6 ♋34	36	14 6	18 16	4	19	6 57
6	15 43	3 29	3 59	21 37	35	19	18 56	2	21	53
7	16 40	4 36	5 43	6 ♌27	18 34	14 34	19 36	12 0	13 23	6 50
8	17 37	5 44	7 25	20 59	32	49	20 16	11 58	26	47
9	18 35	6 53	9 3	5 ♍ 8	31	15 3	20 57	56	28	44
10	19 32	8 1	10 40	18 54	30	16	21 36	54	30	40
11	20 29	9 9	12 12	2 ♎17	29	30	22 16	53	33	37
12	21 27	10 16	13 44	15 21	28	44	22 56	51	35	34
13	22 24	11 24	15 12	28 8	27	58	23 36	49	37	31
14	23 21	12 32	16 36	10♍42	18 26	16 12	24 16	11 47	13 40	6 28
15	24 19	13 41	17 59	23 4	26	26	24 55	46	42	25
16	25 16	14 49	19 19	5 ♐ 18	26	40	25 35	44	44	21
17	26 13	15 57	20 35	17 25	26	54	26 14	42	46	18
18	27 10	17 6	21 50	29 26	25	17 7	26 52	41	48	15
19	28 8	18 14	23 0	11♑22	25	21	27 31	39	50	12
20	29 5	19 23	24 7	23 15	25	35	28 11	38	52	9
21	0 ♋ 2	20 32	25 12	5 ♒ 7	18 25	17 49	28 50	11 36	13 54	6 6
22	0 59	21 40	26 14	16 59	25	18 3	29 30	35	56	2
23	1 56	22 49	27 13	28 55	D25	17	0 ♈ 8	34	58	5 59
24	2 54	23 58	28 9	10♓59	25	30	0 45	32	14 1	56
25	3 51	25 7	29 0	23 14	25	45	1 25	31	3	53
26	4 48	26 17	29 48	5 ♈46	26	58	2 1	29	5	50
27	5 45	27 27	0♌33	18 40	26	19 11	2 40	28	7	47
28	6 43	28 37	1 14	2 ♉ 0	18 27	19 25	3 19	11 27	14 9	5 43
29	7 40	29 46	1 50	15 48	27	38	3 55	26	11	40
30	8 37	0♊55	2 20	0 ♊ 6	18 28	19 51	4 34	11 25	14 14	5 37

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1894

Full Moon June 18th in ♐ 27° 10′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		N	N	N	N	S	N	S	S	N
1	4 39	22 6	8 40	25 15	16 20	4 52	21 55	7 50	15 7	20 58
2	43	14	9 2	21	21 35	52	57	36	7	58
3	47	21	9 25	28	25 38	51	59	21	6	58
4	51	28	9 47	29	28 0	51	22 1	7	5	58
5	55	35	10 10	31	28 20	51	3	6 52	4	59
6	59	41	10 32	29	26 33	51	5	37	4	59
7	5 3	22 47	10 55	25 26	22 57	4 50	22 6	6 22	15 3	20 59
8	7	53	11 17	19	17 59	50	8	8	3	59
9	11	58	11 39	12	12 9	50	9	5 53	2	21 0
10	15	23 3	12 1	0	5 53	50	10	39	2	0
11	19	7	12 22	24 51	0 S29	49	12	24	1	0
12	23	11	12 43	38	6 41	49	14	10	1	0
13	27	14	13 4	25	12 29	49	16	4 55	0	1
14	5 31	23 17	13 25	24 9	17 40	4 49	22 18	4 40	15 0	21 1
15	35	20	13 46	23 53	22 2	49	19	26	14 59	1
16	38	22	14 6	35	25 23	49	20	12	59	1
17	42	24	14 27	17	27 33	49	21	3 57	59	2
18	46	26	14 47	22 58	28 25	49	23	43	59	2
19	50	27	15 7	38	27 56	49	24	28	58	2
20	54	27	15 26	17	26 10	49	26	14	58	2
21	5 58	23 27	15 45	21 56	23 15	4 50	22 27	2 59	14 57	21 3
22	6 2	27	16 4	34	19 22	50	28	45	57	3
23	6	26	16 23	12	14 41	50	30	31	56	3
24	10	25	16 41	20 50	9 25	50	31	17	56	3
25	14	24	16 59	28	3 42	51	32	3	55	4
26	18	22	17 16	6	2 N18	51	34	1 49	55	4
27	22	20	17 34	19 44	8 22	52	35	35	54	4
28	6 26	23 17	17 51	19 23	14 16	4 52	22 36	1 21	14 54	21 4
29	30	14	18 7	1	19 41	53	37	7	53	5
30	6 34	23 10	18 23	18 40	24 11	4 54	22 38	0 53	14 53	21 5

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1894

New Moon July 3rd in ♋11° 29′

Longitude of the Planets

D	☉ ° ♋′	♀ ° ♊′	☿ ° ♌′	☽ ° ♊′	♄ ° ♎′	♃ ° ♊′	♂ ° ♈′	♅ ° ♏′	♆ ° ♊′	☊ ° ♈′
1	9 34	2 5	2 52	14 51	18 27	20 4	5 10	11ℝ24	14 16	5 34
2	10 31	3 15	3 16	29 57	28	18	5 48	23	18	30
3	11 29	4 24	3 38	15♋14	29	32	6 25	22	20	27
4	12 26	5 33	3 52	0 ♌30	30	45	7 0	22	22	24
5	13 28	6 43	4 6	15 36	33	59	7 37	21	24	21
6	14 20	7 53	4 10	0 ♍21	36	21 12	8 12	20	26	18
7	15 18	9 3	4 11	14 42	18 38	21 25	8 50	11 19	14 28	5 15
8	16 15	10 13	4 ℝ 6	28 34	39	38	9 26	19	30	11
9	17 12	11 24	3 59	12♎ 0	40	52	10 3	18	32	8
10	18 9	12 35	3 46	25 3	41	22 4	10 36	18	34	5
11	19 6	13 44	3 29	7 ♍45	43	17	11 12	17	36	2
12	20 4	14 54	3 8	20 11	45	30	11 47	17	38	4 59
13	21 1	16 5	2 43	2 ♐25	48	44	12 33	17	40	56
14	21 58	17 17	2 15	14 30	18 51	22 57	12 57	11 16	14 42	4 52
15	22 55	18 27	1 43	26 29	53	23 10	13 30	16	44	49
16	23 53	19 37	1 8	8 ♑24	55	22	14 3	16	45	46
17	24 50	20 47	0 30	20 16	57	34	14 39	16	47	43
18	25 47	21 58	29 50	2 ♒ 9	59	47	15 13	15	49	40
19	26 44	23 8	29♋ 9	14 2	19 2	24 0	15 46	15	51	37
20	27 42	24 19	28 26	25 57	5	13	16 19	15	53	33
21	28 39	25 30	27 45	7 ♓58	19 8	24 26	16 52	11D15	14 54	4 30
22	29 36	26 40	27 4	20 6	11	38	17 24	15	56	27
23	0♌33	27 51	26 26	2 ♈25	14	51	17 56	15	58	24
24	1 31	29 3	25 47	14 59	18	25 3	18 28	15	59	21
25	2 28	0♋15	25 17	27 51	21	16	19 0	15	15 1	18
26	3 25	1 27	24 46	11 ♉ 7	23	29	19 31	16	2	14
27	4 23	2 38	24 20	24 49	26	41	20 1	16	3	11
28	5 20	3 50	24 0	8 ♊58	19 30	25 53	20 32	11 16	15 5	4 8
29	6 18	5 1	23 46	23 33	34	26 5	21 2	16	7	5
30	7 15	6 13	23 37	8 ♋30	38	18	21 33	17	9	2
31	8 12	7 25	23 35	23 41	19 42	26 30	22 2	11 18	15 10	3 59

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1894

Full Moon July 17th in ♈ 24° 50′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ N	♄ S	♅ N	♂ S	♃ S	♆ N
1	6 38	23 7	18 39	18 19	27 15	4 54	22 39	0 40	14 53	21 5
2	42	2	54	0	28 26	54	40	26	53	5
3	45	22 58	19 9	17 40	27 29	55	41	13	53	6
4	49	52	23	22	24 28	56	42	0	53	6
5	53	47	37	4	19 48	57	43	N14	52	6
6	57	41	50	16 48	14 1	58	44	27	52	6
7	7 1	22 35	20 3	16 33	7 37	4 59	22 45	0 40	14 52	21 7
8	5	28	15	20	1 3	59	46	53	52	7
9	9	21	28	7	5 S21	5 0	47	1 6	52	7
10	13	13	39	15 57	11 21	1	48	19	52	7
11	17	5	50	47	16 43	2	48	32	52	7
12	21	21 57	21 0	40	21 16	3	49	45	52	7
13	25	49	11	33	24 50	4	50	57	51	8
14	7 29	21 40	21 20	15 29	27 15	5 5	22 51	2 10	14 51	21 8
15	33	30	29	26	28 23	6	52	22	51	8
16	37	21	37	26	28 11	8	53	34	51	8
17	41	10	45	26	26 41	9	53	46	51	8
18	45	0	52	29	24 0	10	54	58	51	8
19	49	20 49	59	33	20 17	11	54	3 10	51	9
20	53	38	22 5	39	15 45	13	55	21	51	9
21	7 56	20 27	22 10	15 46	10 35	5 14	22 56	3 33	14 51	21 9
22	8 0	15	14	56	4 59	16	56	45	51	9
23	4	3	19	16 5	0 N54	17	57	56	51	9
24	8	19 50	22	16	6 53	18	57	4 7	51	9
25	12	37	26	27	12 43	19	58	18	52	10
26	16	24	28	40	18 10	21	59	29	52	10
27	20	11	30	53	22 52	22	59	40	52	10
28	8 24	18 57	22 31	17 7	26 24	5 24	22 59	4 50	14 52	21 10
29	28	43	32	21	28 19	25	23 0	5 1	52	10
30	32	28	32	35	28 14	27	0	11	52	10
31	8 36	18 13	22 31	17 49	26 3	5 29	23 0	5 21	14 53	21 11

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1894

New Moon August 1st in ♌ 9° 10′

New Moon August 30th in ♍ 7° 4′

Longitude of the Planets

D	☉	♀	☿	☽	♄	♃	♂	♅	♆	♇
	° ♌′	° ♋′	° ♌′	° ♌ ′	° ♒′	° ♊′	° ♈′	° ♍′	° ♊′	° ♈′
1	9 10	8 37	23 36	8 56	19 46	26 41	22 32	11 19	15 12	3 55
2	10 7	9 48	23 45	24 5	49	53	23 0	20	13	52
3	11 5	11 0	24 1	8 ♍56	53	27 4	23 29	21	15	49
4	12 2	12 12	24 24	23 24	57	15	23 58	22	17	46
5	13 0	13 23	24 54	7 ♎25	20 2	27	24 26	23	18	43
6	13 57	14 35	25 28	20 58	6	38	24 52	24	19	39
7	14 55	15 47	26 10	4 ♏ 5	20 10	27 50	25 19	11 25	15 21	3 36
8	15 52	16 59	27 0	16 49	14	28 1	25 46	26	22	33
9	16 50	18 11	27 55	29 14	19	12	26 11	27	23	30
10	17 47	19 23	28 56	11 ♐ 26	24	23	26 36	28	25	27
11	18 45	20 35	0 ♌ 4	23 27	29	35	27 1	29	26	24
12	19 43	21 47	1 16	5 ♑22	34	46	27 26	30	27	20
13	20 40	22 59	2 35	17 14	38	57	27 50	32	28	17
14	21 38	24 12	4 0	29 7	20 43	29 7	28 13	11 33	15 29	3 14
15	22 36	25 24	5 30	11♒ 1	48	19	28 35	35	31	11
16	23 33	26 36	7 4	22 59	54	30	28 59	37	32	8
17	24 31	27 49	8 42	5 ♓ 2	59	40	29 21	38	33	5
18	25 29	29 2	10 24	17 12	21 4	50	29 42	40	34	1
19	26 26	0♌15	12 8	29 31	9	0 ♋ 0	0 ♉ 2	41	35	2 58
20	27 24	1 27	13 59	12 ♈ 1	14	12	0 23	43	36	55
21	28 22	2 40	15 50	24 44	21 19	0 22	0 42	11 44	15 36	2 52
22	29 20	3 53	17 43	7 ♉43	25	32	1 1	46	37	49
23	0♍18	5 7	19 36	21 1	30	42	1 20	47	38	46
24	1 16	6 20	21 35	4 ♊39	35	52	1 37	49	39	42
25	2 13	7 33	23 32	18 39	41 1	1	1 55	51	40	39
26	3 11	8 46	25 30	3 ♋ 0	47	11	2 12	53	40	36
27	4 9	9 59	27 27	17 39	52	21	2 28	54	41	33
28	5 7	11 13	29 26	2 ♌32	21 58	1 30	2 42	11 56	15 42	2 29
29	6 5	12 27	1♍25	17 30	22 4	39	2 57	58	43	26
30	7 4	13 40	3 23	2 ♍25	10	49	3 11	12 0	43	23
31	8 2	14 53	5 20	17 9	22 16	1 58	3 25	12 2	15 44	2 20

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1894

Full Moon August 16th in ♒ 23° 33′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ N	♄ S	♅ N	♂ N	♃ S	♆ N
1	8 40	17 58	22 29	18 3	21 59	5 30	23 1	5 31	14 53	21 11
2	44	17 43	27	15	16 30	32	1	41	53	11
3	48	17 27	25	28	10 7	34	1	51	53	11
4	52	17 12	21	40	3 21	36	1	6 0	53	11
5	56	16 55	18	51	3 S22	37	2	10	54	11
6	9 0	16 39	13	19 0	9 43	39	2	19	54	11
7	9 3	16 22	22 8	19 9	15 26	5 41	23 2	6 28	14 54	21 11
8	7	16 5	2	15	20 20	43	2	38	54	11
9	11	15 48	21 56	21	24 13	44	3	45	55	12
10	15	15 30	48	23	26 56	46	3	54	55	12
11	19	15 13	41	25	28 22	48	3	7 2	56	12
12	23	14 55	32	23	28 29	50	3	10	56	12
13	27	14 37	24	21	27 16	52	4	18	57	12
14	9 31	14 18	21 14	19 13	24 50	5 54	23 4	7 28	14 57	21 12
15	35	13 59	4	6	21 19	56	4	38	57	12
16	39	13 40	20 53	18 53	16 55	58	4	43	58	12
17	43	13 21	42	41	11 50	6 0	4	48	5 8	12
18	47	13 2	29	23	6 14	2	4	55	58	12
19	51	12 43	17	5	0 21	4	4	8 2	59	12
20	55	12 23	4	17 41	5 N38	6	4	8	59	12
21	9 59	12 3	19 50	17 17	11 30	6 9	23 4	8 15	15 0	21 13
22	10 3	11 43	36	16 49	17 1	11	4	21	1	13
23	7	11 22	21	20	21 51	13	4	27	2	13
24	11	11 2	5	15 46	25 40	15	4	33	3	13
25	14	10 41	18 50	13	28 2	17	4	39	3	13
26	18	10 20	33	14 36	28 38	19	4	44	4	13
27	22	9 59	16	13 59	27 15	22	4	49	4	13
28	10 26	9 38	17 58	13 18	23 58	6 24	23 4	8 54	15 5	21 13
29	30	9 17	41	12 38	19 3	26	4	59	5	13
30	34	8 55	22	11 55	12 59	28	4	9 4	6	13
31	10 38	8 34	17 3	11 12	6 16	6 31	23 4	9 8	15 7	21 13

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1894

Eclipse of Sun September 29th in ♎ 6° 19′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♍′	° ♌′	° ♍′	° ♎′	° ♎′	° ♑′	° ♑′	° ♉′	° ♍′	° ♈′
1	9 0	16 6	7 18	1 34	22 21	2 6	3 36	12 5	15 44	2 17
2	9 58	17 20	9 15	15 37	27	15	48	7	45	14
3	10 56	18 34	11 8	29 14	32	24	59	9	46	11
4	11 54	19 46	13 3	12♍26	38	33	4 9	12	47	7
5	12 52	20 59	14 56	25 14	44	41	18	14	47	4
6	13 51	22 12	16 49	7 ♐43	51	49	26	16	47	1
7	14 49	23 26	18 40	19 56	22 59	2 58	4 33	12 19	15 48	1 58
8	15 47	24 40	20 29	1 ♑57	23 5	3 6	39	21	48	55
9	16 46	25 54	22 18	13 52	11	13	45	24	49	52
10	17 44	27 9	24 6	25 44	18	21	50	26	49	48
11	18 42	28 23	25 53	7 ♒37	24	29	54	29	49	45
12	19 41	29 36	27 39	19 34	30	36	58	31	49	42
13	20 39	0♍49	29 22	1 ♓39	36	43	5 0	34	49	39
14	21 38	2 2	1 ♎ 6	13 52	23 43	3 51	5 2	12 36	15 50	1 35
15	22 36	3 16	2 48	26 16	50	58	3	39	50	32
16	23 35	4 30	4 29	8 ♈53	56	4 4	R 3	41	50	29
17	24 33	5 44	6 10	21 41	24 3	11	2	44	50	26
18	25 32	6 58	7 50	4 ♉43	10	17	1	47	50	23
19	26 30	8 12	9 28	17 59	16	24	4 58	50	50	20
20	27 29	9 27	11 4	1 ♊29	23	30	54	52	R50	16
21	28 28	10 41	12 40	15 12	24 30	4 36	4 51	12 55	15 50	1 13
22	29 27	11 56	14 16	29 10	37	42	45	58	50	10
23	0♎25	13 11	15 50	13♋20	44	48	39	13 1	50	7
24	1 24	14 25	17 23	27 41	51	54	33	4	49	4
25	2 23	15 39	18 56	12♌10	57	59	24	7	49	1
26	3 22	16 53	20 26	26 42	25 4	5 5	16	11	49	0 57
27	4 21	18 7	21 57	11♍12	12	10	6	14	49	54
28	5 20	19 22	23 27	25 35	25 19	5 15	3 56	13 17	15 48	0 51
29	6 19	20 36	24 56	9 ♎45	26	20	45	20	48	48
30	7 18	21 51	26 24	23 38	25 33	5 24	3 33	13 23	15 48	0 45

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1894

Eclipse of Moon September 15th in ♓ 22° 36′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ S	♄ S	♅ N	♂ N	♃ S	♆ N
1	10 42	8 12	16 43	10 28	0 39	6 33	23 4	9 12	15 8	21 13
2	46	7 50	16 23	9 42	7 21	36	3	16	8	13
3	50	7 28	16 3	8 57	13 31	38	3	20	9	13
4	54	7 6	15 42	8 11	18 53	40	3	23	9	13
5	58	6 44	15 21	7 25	23 13	43	3	26	10	13
6	11 2	6 21	14 59	6 38	26 22	46	2	29	10	13
7	11 6	5 59	14 36	5 50	28 13	6 48	23 2	9 32	15 11	21 13
8	10	5 36	14 13	5 3	28 42	50	2	35	12	13
9	14	5 14	13 51	4 16	27 50	52	2	37	13	13
10	18	4 51	13 27	3 29	25 43	53	2	40	14	13
11	21	4 28	13 3	2 41	22 29	57	2	42	14	13
12	25	4 5	12 39	1 54	18 17	7 0	1	43	15	13
13	29	3 42	12 15	1 7	13 20	2	1	45	16	13
14	11 33	3 19	11 50	0 21	7 48	7 5	23 1	9 46	15 16	21 13
15	37	2 56	11 25	0 S 26	1 54	7	1	47	17	13
16	41	2 33	10 59	1 12	4 N10	9	1	48	18	13
17	45	2 10	10 33	1 58	10 11	12	1	49	19	13
18	49	1 46	10 6	2 43	15 51	15	1	50	20	13
19	53	1 23	9 40	3 29	20 54	17	1	50	21	13
20	57	1 0	9 13	4 13	24 58	20	1	49	22	13
21	12 1	0 36	8 47	4 57	27 41	7 23	23 1	9 49	15 23	21 13
22	5	0 13	8 20	5 41	28 44	26	1	48	24	13
23	9	0 S10	7 52	6 24	27 56	28	1	48	25	12
24	13	0 34	7 24	6 47	25 16	30	1	47	26	12
25	17	0 57	6 56	7 49	21 0	33	0	46	27	12
26	21	1 21	6 28	8 30	15 26	35	0	45	28	12
27	25	1 44	6 0	9 11	9 3	38	0	44	29	12
28	12 29	2 7	5 31	9 51	2 14	7 41	23 0	9 42	15 30	21 12
29	32	2 31	5 2	10 31	4 S35	43	0	40	31	12
30	12 36	2 54	4 33	11 10	11 3	7 46	22 59	9 38	15 32	21 12

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1894

New Moon October 28th in ♏ 5° 4′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♃	♆	☊
	° ♎′	° ♍′	° ♎′	° ♏′	° ♎′	° ♑′	° ♉′	° ♏′	° ♐′	° ♈′
1	8 17	23 5	27 51	7 11	25 40	5 29	3 R20	13 26	15R47	0 42
2	9 16	24 20	29 18	20 22	25 47	33	3 7	29	47	38
3	10 15	25 35	0♏42	3 ♐13	25 54	37	2 52	32	46	35
4	11 14	26 49	2 6	15 44	26 1	41	2 37	35	46	32
5	12 13	28 4	3 30	27 59	26 8	45	2 22	38	45	29
6	13 13	29 19	4 51	10♑ 1	26 15	48	2 5	41	45	26
7	14 12	0♎33	6 12	21 56	26 22	5 52	1 48	13 45	15 44	0 23
8	15 11	1 48	7 31	3 ♒48	26 30	56	1 32	48	43	19
9	16 11	3 3	8 51	15 41	26 37	59	1 14	52	43	16
10	17 10	4 18	10 7	27 41	26 44	6 1	0 56	55	42	13
11	18 9	5 33	11 24	9 ♓51	26 51	4	0 37	59	41	10
12	19 9	6 48	12 37	22 13	26 58	6	0 18	14 2	40	6
13	20 8	8 3	13 51	4 ♈51	27 5	8	29 58	5	39	3
14	21 8	9 17	15 3	17 46	27 12	6 11	♈39	14 9	15 39	0 0
15	22 7	10 32	16 12	0 ♉58	27 20	13	29 20	13	38	29 57
16	23 7	11 47	17 20	14 25	27 27	15	29 0	17	37	♓54
17	24 6	13 2	18 25	28 7	27 34	16	28 40	20	36	51
18	25 6	14 17	19 28	11♊59	27 42	17	28 20	24	35	47
19	26 5	15 32	20 28	26 1	27 49	18	28 1	28	34	44
20	27 5	16 48	21 27	10♋ 7	27 56	19	27 41	32	33	41
21	28 5	18 3	22 21	24 17	28 4	6 20	27 21	14 35	15 32	29 38
22	29 5	19 18	23 12	8 ♌28	28 11	21	27 1	39	31	35
23	0 ♏ 4	20 33	23 59	22 38	28 18	21	26 42	43	30	32
24	1 4	21 48	24 42	6 ♍45	28 26	21	26 22	47	29	28
25	2 4	23 3	25 21	20 47	28 33	21	26 3	50	28	25
26	3 4	24 18	25 55	4 ♎42	28 40	R21	25 45	54	27	22
27	4 4	25 34	26 22	18 27	28 47	20	25 27	58	26	19
28	5 4	26 49	26 43	2 ♏ 0	28 54	6 19	25 9	15 2	15 25	29 16
29	6 4	28 4	26 59	15 19	29 1	18	24 51	5	23	13
30	7 4	29 20	27 5	28 21	29 8	17	24 34	8	22	9
31	8 4	0♏35	27R 2	11 ♐ 6	29 15	6 16	24 18	15 12	15 21	29 6

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1894

Full Moon October 14th in ♈ 21° 8′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	N	S	S	S	N	N	S	N
1	12 40	3 17	4 4	11 48	16 51	7 49	22 59	9 36	15 33	21 12
2	44	3 41	3 35	12 25	21 42	52	59	34	34	12
3	48	4 4	3 6	13 2	25 23	54	59	31	35	11
4	52	4 27	2 36	13 37	27 45	57	59	28	36	11
5	56	4 50	2 7	14 13	28 42	59	59	26	37	11
6	13 0	5 13	1 38	14 47	28 16	8 1	59	23	38	11
7	13 4	5 36	1 8	15 21	26 32	8 4	22 59	9 20	15 39	21 11
8	8	5 59	0 38	15 53	23 38	7	59	17	40	11
9	12	6 22	0 8	16 25	19 44	10	59	13	41	11
10	16	6 45	0 s21	16 55	15 1	12	59	10	42	11
11	20	7 8	0 51	17 25	9 40	15	58	6	43	11
12	24	7 30	1 21	17 53	3 51	17	58	3	44	11
13	28	7 53	1 51	18 21	2 N14	20	58	8 59	45	11
14	13 32	8 15	1 21	18 47	8 22	8 22	22 58	8 56	15 46	21 11
15	36	8 37	2 51	19 13	14 16	25	58	52	47	10
16	39	8 59	3 21	19 36	19 36	28	58	48	48	10
17	43	9 21	3 50	19 59	24 2	30	58	45	49	10
18	47	9 43	4 20	20 19	27 8	33	58	41	50	10
19	51	10 5	4 49	20 40	28 36	36	58	38	51	10
20	55	10 27	5 19	20 57	28 13	38	58	34	52	10
21	13 59	10 48	5 48	21 15	26 0	8 41	22 58	8 31	15 53	21 10
22	14 3	11 9	6 19	21 34	22 10	44	58	27	54	10
23	7	11 30	6 47	21 43	17 3	46	58	24	55	10
24	11	11 51	7 18	21 53	11 2	48	58	20	56	10
25	15	12 12	7 45	22 3	4 30	51	58	17	58	9
26	19	12 33	8 14	22 8	2 s11	53	58	14	59	9
27	23	12 53	8 42	22 14	8 41	56	59	11	16 0	9
28	14 27	13 13	9 11	22 15	14 42	8 58	22 59	8 9	16 1	21 9
29	31	13 33	9 38	22 15	19 55	9 1	59	6	2	8
30	35	13 53	10 16	22 10	24 4	4	59	4	4	8
31	14 39	14 13	10 34	22 4	26 57	9 6	22 59	8 1	16 5	21 8

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1894

New Moon November 27th in ♐ 5° 16′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♏′	° ♏′	° ♏′	° ♐′	° ♑′	° ♋′	° ♈′	° ♏′	° ♊′	° ♓′
1	9 4	1 50	26R54	23 35	29 23	6 R14	24R 2	15 16	15R20	29 3
2	10 4	3 5	26 35	5 ♍50	29 30	13	23 47	19	18	0
3	11 4	4 21	26 5	17 52	29 37	11	33	23	17	28 57
4	12 5	5 35	25 25	29 46	29 44	9	19	27	16	53
5	13 5	6 51	24 38	11♒37	29 52	6	5	31	14	50
6	14 5	8 7	23 43	23 29	29 58	3	22 52	34	13	47
7	15 5	9 22	22 37	5 ♓28	0 ♏ 5	6 0	22 40	15 38	15 11	28 44
8	16 5	10 37	21 22	17 38	0 12	5 58	30	42	10	41
9	17 6	11 52	20 5	0 ♈ 5	0 20	55	20	46	8	38
10	18 6	13 7	18 47	12 51	0 28	52	10	49	7	34
11	19 6	14 24	17 27	26 0	0 34	48	1	53	6	31
12	20 7	15 39	16 8	9 ♉31	0 41	45	21 54	57	4	28
13	21 7	16 54	14 57	23 24	0 48	41	47	16 1	2	25
14	22 8	18 9	13 51	7 ♊34	0 55	5 36	21 41	16 4	15 1	28 22
15	23 8	19 24	12 55	21 56	1 2	32	36	8	14 59	19
16	24 9	20 40	12 9	6 ♋24	1 9	28	32	11	57	15
17	25 9	21 55	11 36	20 52	1 16	23	28	15	56	12
18	26 10	23 10	11 11	5 ♌15	1 22	19	26	18	54	9
19	27 10	24 26	11 2	19 29	1 29	14	23	22	52	6
20	28 11	25 41	11D 3	3 ♍32	1 36	9	22	26	50	3
21	29 12	26 58	11 12	17 24	1 42	5 3	21 21	16 30	14 49	28 0
22	0 ♐ 12	28 13	11 33	1 ♎ 5	1 49	4 58	D22	33	47	27 56
23	1 13	29 29	12 4	14 35	1 56	52	23	37	46	53
24	2 14	0 ♐ 44	12 42	27 54	2 2	47	25	41	44	50
25	3 14	2 0	13 28	11♏ 3	2 10	41	28	45	43	47
26	4 15	3 15	14 18	24 1	2 17	35	31	48	41	43
27	5 16	4 31	15 15	6 ♐47	2 23	28	35	52	40	40
28	6 17	5 45	16 18	19 21	2 29	4 22	21 40	16 56	14 38	27 37
29	7 18	7 2	17 23	1 ♍42	2 36	16	45	59	36	34
30	8 18	8 16	18 33	13 51	2 42	4 9	21 52	17 3	14 35	27 31

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1894

Full Moon November 13th in ♉ 21° 7′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	S	S	S	S	N	N	S	N
1	14 43	14 32	11 1	21 53	28 25	9 9	22 59	7 59	16 6	21 8
2	46	14 51	11 28	21 36	28 28	11	59	57	7	8
3	50	15 10	11 55	21 20	27 9	14	23 0	55	8	8
4	54	15 28	12 21	20 55	24 36	17	0	54	9	8
5	58	15 47	12 48	20 30	21 2	19	0	53	10	7
6	15 2	16 5	13 14	19 58	16 37	21	0	52	11	7
7	15 6	16 22	13 40	19 25	11 32	9 24	23 0	7 51	16 12	21 7
8	10	16 40	14 5	18 46	5 56	26	0	51	13	7
9	14	16 57	14 30	18 8	0 N 1	29	1	50	14	6
10	18	17 14	14 55	17 26	6 7	31	1	50	16	6
11	22	17 31	15 19	16 44	12 7	33	1	50	17	6
12	26	17 47	15 43	16 4	17 45	35	1	50	18	6
13	30	18 3	16 7	15 24	22 36	38	2	51	19	6
14	15 34	18 19	16 30	14 50	26 14	9 40	23 2	7 52	16 20	21 6
15	38	18 34	16 52	14 16	28 15	43	2	53	21	5
16	42	18 49	17 14	13 52	28 21	45	2	55	22	5
17	46	19 4	17 36	13 27	26 31	47	3	57	23	5
18	50	19 18	17 57	13 13	22 59	49	3	59	24	5
19	54	19 33	18 18	13 0	18 6	52	3	8 1	25	5
20	57	19 46	18 38	12 57	12 18	54	3	3	26	5
21	16 1	20 0	18 58	12 53	5 58	9 56	23 4	8 6	16 27	21 4
22	5	20 13	19 17	12 59	0 S34	58	4	9	28	4
23	9	20 25	19 36	13 5	6 59	10 1	5	12	29	4
24	13	20 37	19 54	13 18	13 0	3	5	15	30	4
25	17	20 49	20 12	13 31	18 21	5	5	19	31	4
26	21	21 1	20 28	13 49	22 47	7	6	23	32	4
27	25	21 12	20 45	14 8	26 3	9	6	27	33	3
28	16 29	21 22	21 0	14 30	27 58	10 11	23 6	8 31	16 34	21 3
29	33	21 33	21 16	14 52	28 28	14	7	35	35	3
30	16 37	21 42	21 31	15 17	27 33	10 16	23 7	8 40	16 36	21 3

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1894

New Moon December 27th in ♐ 5° 46′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♐′	° ♐′	° ♏′	° ♑′	° ♏′	° ♐′	° ♌′	° ♓′	° ♏′	° ♓′
1	9 19	9 32	19 47	25 51	2 48	4 R 3	21 58	17 7	14R33	27 28
2	10 20	10 47	21 0	7 ♒43	54	3 56	22 6	10	31	24
3	11 21	12 3	22 20	19 32	3 1	49	16	14	29	21
4	12 22	13 19	23 40	1 ♓21	7	42	24	17	28	18
5	13 23	14 35	25 2	13 17	13	35	35	21	26	15
6	14 24	15 51	26 25	25 24	19	27	45	24	24	12
7	15 25	17 6	27 50	7 ♈48	3 24	3 20	22 57	17 28	14 22	27 9
8	16 26	18 21	29 16	20 34	30	12	23 8	31	21	5
9	17 27	19 36	0 ♐42	3 ♉46	36	5	20	35	19	2
10	18 28	20 51	2 9	17 26	42	2 57	33	38	17	26 59
11	19 29	22 7	3 36	1 ♊34	48	49	47	42	16	56
12	20 30	23 22	5 5	16 5	55	41	24 0	45	14	53
13	21 31	24 37	6 34	0 ♋52	4 1	34	16	48	13	50
14	22 32	25 53	8 4	15 48	4 6	2 26	24 32	17 51	14 11	26 46
15	23 33	27 8	9 34	0 ♌43	12	18	48	55	9	43
16	24 34	28 24	11 4	15 29	17	10	25 5	58	8	40
17	25 35	29 39	12 35	29 59	23	2	21	18 1	6	37
18	26 36	0♐55	14 6	14♍10	28 1	54	39	4	4	34
19	27 37	2 10	15 37	28 1	33	46	57	7	3	31
20	28 38	3 26	17 7	11♎34	38	38	26 15	10	1	27
21	29 39	4 41	18 40	24 50	4 43	1 30	26 33	18 13	14 0	26 24
22	0♐40	5 57	20 12	7 ♏52	48	22	53	16	13 58	21
23	1 41	7 13	21 44	20 41	53	13	27 12	18	56	18
24	2 43	8 29	23 15	3 ♐19	58	5	32	21	55	15
25	3 44	9 44	24 49	15 47	5 3	0 56	53	24	53	12
26	4 45	10 59	26 21	28 5	8	48	28 14	27	52	8
27	5 46	12 14	27 55	10♐15	13	40	35	30	50	5
28	6 47	13 30	29 29	22 17	5 18	0 33	28 57	18 33	13 49	26 2
29	7 49	14 45	1 ♐ 3	4 ♒12	23	24	29 19	36	47	25 59
30	8 50	16 1	2 37	16 2	28	16	42	39	46	55
31	9 51	17 16	4 12	27 49	5 32	0 9	0 ♉ 5	18 41	13 44	25 52

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1894

Full Moon December 12th in ♊ 20° 30′

Declination of the Planets

D	S T	☉ S	♀ S	☿ S	☽ S	♄ S	♃ N	♂ N	♅ S	♆ N
1	16 41	21 52	21 45	15 42	25 22	10 18	23 7	8 45	16 37	21 2
2	45	22 1	21 58	16 8	22 6	20	7	50	38	2
3	49	9	22 11	16 33	17 57	22	8	56	39	2
4	53	18	22 22	17 0	13 7	24	8	9 2	40	2
5	57	25	22 34	17 26	7 45	26	8	7	41	2
6	17 1	33	22 35	17 53	2 2	28	9	13	42	1
7	17 4	22 39	22 55	18 19	3 N54	10 30	23 9	9 19	16 43	21 1
8	8	46	23 4	18 44	9 51	31	9	25	44	1
9	12	52	23 13	19 10	15 34	33	10	32	45	1
10	16	57	23 21	19 35	20 43	35	10	38	46	1
11	20	23 2	23 28	19 59	24 54	37	10	45	47	0
12	24	7	23 34	20 23	27 36	39	11	52	48	0
13	28	11	23 40	20 46	28 26	41	11	59	49	0
14	17 32	23 15	23 45	21 8	27 13	10 43	23 11	10 8	16 50	21 0
15	36	18	23 50	21 29	24 4	44	11	14	51	0
16	40	21	23 53	21 49	19 22	45	12	21	52	0
17	44	23	23 56	22 9	13 36	47	12	29	53	20 59
18	48	25	23 58	22 27	7 14	49	12	37	53	59
19	52	26	24 0	22 45	0 40	51	12	45	54	59
20	56	27	24 0	23 0	5 S47	53	13	53	55	59
21	18 0	23 27	24 0	23 16	11 51	10 54	23 13	11 1	16 56	20 59
22	4	27	23 59	23 30	17 17	55	13	10	57	59
23	8	27	23 58	23 43	21 51	57	13	18	58	58
24	12	26	23 55	23 54	25 21	59	14	27	58	58
25	15	24	23 52	24 5	27 35	11 0	14	35	59	58
26	19	22	23 48	24 14	28 26	1	14	34	17 0	58
27	23	20	23 44	24 23	27 52	2	14	53	1	58
28	18 27	23 17	23 38	24 29	26 0	11 3	23 14	12 1	17 1	20 57
29	31	13	23 32	24 35	23 0	5	14	10	2	57
30	35	10	23 25	24 38	19 3	7	15	20	3	57
31	18 39	23 5	23 18	24 42	14 23	11 8	23 15	12 29	17 4	20 57

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	35	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6679	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5692	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3395	16

TABLE OF PROPORTIONAL LOGARITHMS

Min.	Hours or Degrees											
	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	82
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	10	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	56	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06
59	68	46	46	65	02	53	18	95	83	81	88	03

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The Rosicrucian Fellowship,
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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1895

New Moon January 25th in ♒ 5° 18′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♑′	° ♑′	° ♑′	° ♈′	° ♏′	° ♌′	° ♉′	° ♏′	° ♊′	° ♈′
1	10 52	18 31	5 47	9 37	5 37	0 R 1	0 28	18 44	13R42	25 49
2	11 53	19 46	7 23	21 30	41	29♊52	0 52	47	41	46
3	12 54	21 2	8 58	3 ♉34	45	45	1 15	49	40	43
4	13 56	22 17	10 35	15 54	49	37	1 39	51	38	40
5	14 57	23 32	12 10	28 35	53	29	2 3	54	37	37
6	15 58	24 47	13 46	11♊41	57	21	2 28	56	36	33
7	16 59	26 4	15 24	25 17	6 1	29 14	2 54	18 59	13 34	25 30
8	18 0	27 19	17 0	9 ♋23	4	6	3 19	19 1	33	27
9	19 1	28 36	18 38	23 58	8	28 59	3 45	4	31	24
10	20 2	29 49	20 16	8 ♌56	12	52	4 11	6	30	21
11	21 3	1 ♒ 6	21 54	24 8	16	45	4 38	9	29	18
12	22 5	2 20	23 33	9 ♍23	19	38	5 4	11	28	14
13	23 6	3 38	25 13	24 30	22	31	5 31	13	27	11
14	24 7	4 55	26 54	9 ♎22	6 25	28 24	5 58	19 15	13 25	25 8
15	25 8	6 8	28 36	23 51	28	17	6 25	17	24	5
16	26 9	7 22	0♒16	7 ♏54	31	11	6 52	19	23	1
17	27 10	8 39	1 59	21 33	34	5	7 20	21	22	24 58
18	28 11	9 53	3 41	4 ♐49	37	27 59	7 48	23	21	55
19	29 12	11 9	5 23	17 45	40	53	8 17	24	19	52
20	0♒13	12 24	7 7	0 ♑24	43	47	8 45	26	18	49
21	1 14	13 38	8 49	12 49	6 45	27 42	9 14	19 28	13 17	24 46
22	2 15	14 54	10 34	25 4	48	37	9 43	30	16	42
23	3 16	16 10	12 16	7 ♑10	50	31	10 12	31	15	39
24	4 17	17 23	14 2	19 9	52	26	10 39	33	14	36
25	5 18	18 39	15 46	1 ♒ 3	54	21	11 10	35	13	33
26	6 19	19 54	17 28	12 54	57	16	11 40	37	12	30
27	7 20	21 10	19 11	24 42	59	11	12 9	38	11	27
28	8 21	22 24	20 54	6 ♓31	7 0	27 6	12 40	19 40	13 10	24 23
29	9 22	23 39	22 36	18 22	1	2	13 9	41	10	20
30	10 23	24 54	24 17	0 ♈18	3	26 58	13 40	42	9	17
31	11 24	26 10	25 57	12 24	7 5	26 54	14 9	19 44	13 9	24 14

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1895

Full Moon January 11th in ♋ 21° 3′

Declination of the Planets

D	S T	☉	♀	☿	☽	♂	♃	♄	♆
		S	S	S	S	S	N	N	S	N
1	18 43	23 1	23 10	24 43	9 11	11 9	23 15	12 38	17 5	20 57
2	47	22 55	1	43	3 38	10	15	47	5	57
3	51	50	22 51	42	2 N 9	11	15	56	6	57
4	55	44	41	39	7 58	12	15	13 6	6	57
5	59	37	30	35	13 37	14	16	15	7	56
6	19 3	30	18	29	18 53	15	16	25	8	56
7	19 7	22 22	22 6	24 22	23 23	11 16	23 16	13 34	17 9	20 56
8	11	15	21 53	13	26 42	17	16	44	9	56
9	15	6	39	3	28 22	18	16	53	10	56
10	19	21 57	25	23 52	28 2	19	16	14 3	10	56
11	22	48	10	38	25 36	20	16	13	11	56
12	26	39	20 54	24	21 20	21	16	22	11	56
13	30	29	38	7	15 42	22	16	32	12	55
14	19 34	21 18	20 21	22 50	9 14	11 22	23 16	14 42	17 12	20 55
15	38	7	4	30	2 26	23	16	51	13	55
16	42	20 56	19 46	9	4 S18	24	16	15 1	14	55
17	46	44	27	21 47	10 38	25	17	11	15	55
18	50	32	8	22	16 19	25	17	21	15	55
19	54	20	18 48	20 57	21 7	26	17	30	16	55
20	58	7	28	29	24 50	26	17	40	17	55
21	20 2	19 54	18 7	20 1	27 19	11 27	23 17	15 50	17 18	20 55
22	6	40	17 46	19 30	28 27	27	17	16 0	19	55
23	10	26	24	18 58	28 12	28	17	9	20	55
24	14	12	2	25	26 37	28	17	19	20	55
25	18	18 57	16 39	17 50	23 51	29	17	29	20	54
26	22	42	16	14	20 6	29	17	38	20	54
27	26	27	15 52	16 37	15 34	30	17	48	20	54
28	20 30	18 11	15 28	15 58	10 27	11 30	23 17	16 58	17 20	20 54
29	33	17 55	4	18	4 57	31	17	17 7	20	54
30	37	39	14 39	14 38	0 N47	31	17	17	20	54
31	20 41	17 22	14 13	13 56	6 32	11 31	23 17	17 27	17 21	20 54

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1895

New Moon February 24th in ♓ 5° 39′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♒′	° ♒′	° ♒′	° ♈′	° ♏′	° ♊′	° ♉′	° ♏′	° ♊′	° ♓′
1	12 25	27 25	27 35	24 44	7 6	26R51	14 40	19 45	13 9	24 11
2	13 26	28 40	29 12	7 ♉22	7	47	15 10	46	9	7
3	14 27	29 55	0♓44	20 22	9	43	15 41	47	8	4
4	15 27	1♓10	2 16	3 ♊48	10	40	16 13	48	7	1
5	16 28	2 25	3 44	17 43	11	37	16 45	49	6	23 58
6	17 29	3 40	5 6	2 ♋ 7	12	34	17 16	50	5	55
7	18 30	4 55	6 24	16 55	7 13	26 31	17 47	19 51	13 5	23 52
8	19 31	6 10	7 36	2 ♌ 3	14	29	18 19	52	4	48
9	20 31	7 25	8 41	17 19	14	28	18 51	53	3	45
10	21 32	8 40	9 40	2 ♍35	14	27	19 22	53	3	42
11	22 33	9 55	10 31	17 39	15	25	19 54	54	3	39
12	23 33	11 9	11 11	2 ♎24	15	23	20 26	54	2	36
13	24 34	12 24	11 45	16 44	15	22	20 58	55	2	33
14	25 34	13 38	12 7	0 ♍36	7 15	26 20	21 31	19 55	13 2	23 29
15	26 35	14 53	12 19	14 1	R15	19	22 4	56	1	26
16	27 35	16 8	12 23	27 2	15	19	22 37	56	1	23
17	28 36	17 23	12R15	9 ♐41	15	19	23 9	57	1	20
18	29 36	18 38	11 56	22 3	15	18	23 42	57	1	17
19	0♓37	19 52	11 29	4 ♑12	15	17	24 15	57	1	14
20	1 37	21 7	10 52	16 11	15	17	24 48	57	1	10
21	2 38	22 21	10 9	28 3	7 14	26D17	25 21	19 57	13 1	23 7
22	3 38	23 36	9 16	9 ♒53	14	18	25 54	57	1	4
23	4 39	24 50	8 20	21 41	13	19	26 27	57	D 1	1
24	5 39	26 5	7 17	3 ♓31	12	19	27 1	R57	1	22 58
25	6 39	27 19	6 13	15 24	11	20	27 34	57	2	55
26	7 40	28 34	5 9	27 23	10	21	28 7	57	2	51
27	8 40	29 48	4 5	9 ♈29	8	23	28 41	57	2	48
28	9 40	1 ♈ 3	3 4	21 45	7 7	26 24	29 15	19 56	13 2	22

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1895

Full Moon February 9th in ♌ 20° 31′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		S	S	S	N	S	N	N	S	N
1	20 45	17 5	13 48	13 14	12 10	11 32	23 18	17 36	17 21	20 54
2	49	16 48	13 22	12 31	17 27	32	18	46	21	54
3	53	16 30	13 55	11 48	22 5	32	18	55	21	54
4	57	16 13	12 28	11 4	25 45	32	18	18 4	21	54
5	21 1	15 54	12 1	10 21	28 3	32	18	14	22	54
6	5	15 36	11 34	9 39	28 33	32	18	23	22	54
7	21 9	15 17	11 6	8 58	27 4	11 32	23 18	18 32	17 22	20 54
8	13	14 59	10 38	8 18	23 37	32	18	42	22	54
9	17	14 39	10 10	7 39	18 29	32	18	51	23	54
10	21	14 20	9 41	7 3	12 11	32	18	19 0	23	54
11	25	14 0	9 13	6 29	5 15	32	18	9	23	54
12	29	13 41	8 44	5 59	1 S49	32	18	18	23	54
13	33	13 20	8 14	5 32	8 36	32	19	26	24	54
14	21 37	13 0	7 45	5 8	14 45	11 32	23 19	19 35	17 24	20 54
15	40	12 40	7 15	4 49	20 0	31	19	44	24	54
16	44	12 19	6 45	4 34	24 8	31	19	53	24	54
17	48	11 58	6 15	4 24	26 59	31	19	20 1	24	54
18	52	11 37	5 45	4 18	28 27	31	19	10	24	54
19	56	11 16	5 15	4 18	28 31	30	19	18	24	54
20	22 0	10 54	4 44	4 22	27 14	30	19	26	24	54
21	22 4	10 32	4 13	4 31	24 43	11 29	23 20	20 34	17 24	20 54
22	8	10 11	3 43	4 45	21 11	29	20	43	24	54
23	12	9 49	3 12	5 2	16 47	28	20	51	24	55
24	16	9 27	2 41	5 23	11 46	28	20	59	24	55
25	20	9 4	2 10	5 46	6 18	27	20	21 6	24	55
26	24	8 42	1 39	6 12	0 34	27	20	14	24	55
27	28	8 19	1 8	6 39	5 N14	26	21	22	24	55
28	22 32	7 57	0 36	7 7	10 56	11 25	23 21	21 29	17 24	20 55

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1895

Eclipse of Sun March 26th in ♈ 5° 34′

Longitude of the Planets

D	☉	♀	☿	☽	♄	♃	♂	♅	♆	♇
	° ♓′	° ♈′	° ♓′	° ♉′	° ♍′	° ♊′	° ♉′	° ♍′	° ♊′	° ♓′
1	10 40	2 18	2 R 7	4 13	7 R 5	26 26	29 47	19R56	13 2	22 42
2	11 40	3 32	1 12	16 53	4	27	0♊22	56	2	38
3	12 41	4 47	0 25	29 58	2	29	0 56	55	2	35
4	13 41	6 1	29♒42	13♊20	0	32	1 29	54	3	32
5	14 41	7 14	29 7	27 5	6 58	34	2 3	54	3	29
6	15 41	8 29	28 38	11♋12	56	37	2 38	53	3	26
7	16 41	9 43	28 14	25 42	6 54	26 39	3 12	19 53	13 4	22 23
8	17 41	10 57	27 59	10♌29	52	42	3 45	52	4	19
9	18 41	12 12	27 50	25 29	50	45	4 20	51	4	16
10	19 40	13 26	27 48	10♍33	48	48	4 55	51	5	13
11	20 40	14 39	27D51	25 32	45	52	5 29	50	5	10
12	21 40	15 52	28 1	10♎19	42	56	6 4	49	5	7
13	22 40	17 6	28 15	24 45	40	27 0	6 38	48	6	4
14	23 40	18 20	28 35	8 ♏47	6 37	27 4	7 13	19 47	13 6	22 0
15	24 39	19 34	29 0	22 22	35	8	7 47	46	7	21 57
16	25 39	20 47	29 30	5 ♐31	32	13	8 21	45	8	54
17	26 39	22 1	0 ♓ 5	18 17	28	17	8 56	44	8	51
18	27 38	23 15	0 44	0 ♑42	25	22	9 30	43	9	48
19	28 38	24 29	1 26	12 51	23	27	10 5	42	10	45
20	29 38	25 43	2 12	24 48	20	33	10 40	40	11	41
21	0♈37	26 57	3 2	6 ♒39	6 16	27 38	11 14	19 39	13 12	21 38
22	1 37	28 10	3 55	18 27	13	44	11 50	37	13	35
23	2 36	29 23	4 50	0 ♓16	10	49	12 25	36	14	32
24	3 36	0♉36	5 50	12 9	6	55	13 0	34	15	29
25	4 35	1 50	6 52	24 10	3	28 1	13 35	33	16	26
26	5 34	3 2	7 55	6 ♈19	5 59	7	14 10	32	18	22
27	6 34	4 15	9 3	18 40	56	13	14 45	30	19	19
28	7 33	5 30	10 10	1 ♉13	5 52	28 20	15 20	19 29	13 20	21 16
29	8 32	6 42	11 21	13 58	48	27	15 55	27	21	13
30	9 32	7 56	12 35	26 58	44	23	16 31	25	23	10
31	10 31	9 8	13 50	10♊12	5 40	28 40	17 6	19 23	13 24	21 7

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1895

Eclipse of Moon March 11th in ♍ 20° 40′

Declination of the Planets

D	S T	☉ S	☿ S	♀ S	☽ N	♄ S	♃ N	♂ N	♅ S	♆ N
1	22 36	7 34	0 5	7 35	16 17	11 25	23 21	21 37	17 24	20 55
2	40	7 11	0 N26	8 3	21 4	24	21	44	24	55
3	44	6 48	0 57	30	24 57	23	21	51	24	55
4	47	6 25	1 28	56	27 36	22	21	58	24	55
5	51	6 2	1 59	9 21	28 41	22	22	22 5	23	55
6	55	5 39	2 31	44	27 57	21	22	12	23	55
7	22 59	5 16	3 2	10 4	25 20	11 20	23 22	22 19	17 23	20 55
8	23 3	4 52	3 33	23	20 59	19	22	26	23	55
9	7	4 29	4 4	40	15 15	18	23	32	22	55
10	11	4 5	4 35	54	8 35	17	23	39	22	55
11	15	3 42	5 5	11 6	1 28	16	23	45	22	56
12	19	3 18	5 36	16	5 S38	15	23	51	22	56
13	23	2 55	6 6	24	12 16	14	23	57	21	56
14	23 27	2 31	6 37	11 30	18 6	11 13	23 23	23 3	17 21	20 56
15	31	2 7	7 7	33	22 50	12	24	9	21	56
16	35	1 44	7 37	34	26 14	11	24	14	21	56
17	39	1 20	8 7	34	28 12	10	24	20	20	57
18	43	0 56	8 37	31	28 41	9	24	25	20	57
19	47	0 32	9 6	26	27 45	8	25	30	20	57
20	51	0 9	9 36	20	25 33	6	25	35	20	57
21	23 55	0 N15	10 5	11 12	22 16	11 5	23 25	23 40	17 19	20 57
22	58	0 39	10 34	2	18 5	4	25	45	19	57
23	0 2	1 2	11 3	10 50	13 13	3	26	50	18	58
24	6	1 26	11 31	36	7 50	2	26	54	18	58
25	10	1 50	11 59	21	2 8	0	26	59	18	58
26	14	2 13	12 27	5	3 N43	0	26	24 3	17	58
27	18	2 37	12 54	9 46	9 31	10 58	26	7	17	58
28	0 22	3 0	13 22	9 27	15 2	10 57	23 26	24 11	17 16	20 58
29	26	3 24	13 49	5	20 1	55	27	15	16	59
30	30	3 47	14 15	8 43	24 8	53	27	18	15	59
31	0 34	4 10	14 42	8 19	27 5	10 52	23 27	24 22	17 15	20 59

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1895

New Moon April 24th in ♉ 4° 2′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♈′	° ♉′	° ♓′	° ♊′	° ♏′	° ♊′	° ♊′	° ♏′	° ♊′	° ♓′
1	11 30	10 22	15 7	23 40	5 R37	28 47	17 42	19R21	13 25	21 3
2	12 29	11 35	16 26	7 ♋24	33	55	18 18	20	26	0
3	13 28	12 48	17 46	21 23	29	29 2	18 52	18	27	20 57
4	14 27	14 0	19 10	5 ♌36	25	9	19 28	16	29	54
5	15 26	15 13	20 34	20 1	21	17	20 3	14	30	51
6	16 25	16 25	22 0	4 ♍36	17	25	20 38	12	31	47
7	17 24	17 38	23 29	19 15	5 12	29 33	21 14	19 10	13 33	20 44
8	18 23	18 51	24 59	3 ♎54	8	41	21 49	8	34	41
9	19 22	20 3	26 29	18 25	4	50	22 25	6	36	38
10	20 21	21 15	28 1	2 ♏42	0	58	23 0	4	37	35
11	21 20	22 27	29 36	16 41	4 55	0 ♋ 6	23 37	2	39	32
12	22 19	23 40	1 ♈12	0 ♐17	50	15	24 13	0	40	28
13	23 17	24 53	2 49	13 30	46	23	24 49	18 58	42	25
14	24 16	26 5	4 28	26 19	4 41	0 32	25 24	18 55	13 43	20 22
15	25 15	27 18	6 10	8 ♑48	36	41	26 0	53	44	19
16	26 13	28 29	7 52	21 0	32	50	26 36	51	46	16
17	27 12	29 40	9 36	2 ♒58	28	59	27 12	49	47	13
18	28 11	0♊53	11 22	14 49	23 1	8	27 47	47	49	9
19	29 9	2 5	13 9	26 38	19	18	28 23	44	51	6
20	0 ♉ 8	3 16	14 58	8 ♓29	15	28	28 58	42	52	3
21	1 6	4 28	16 48	20 26	4 10	1 38	29 34	18 39	13 54	20 0
22	2 5	5 40	18 40	2 ♈34	6	48	0♋12	37	56	19 56
23	3 3	6 52	20 34	14 55	1	57	0 47	34	58	53
24	4 2	8 3	22 30	27 32	3 56	2 7	1 23	32	14 0	50
25	5 0	9 13	24 28	10 ♉24	52	17	1 59	29	2	47
26	5 58	10 25	26 27	23 33	47	27	2 35	27	4	44
27	6 57	11 37	28 28	6 ♊56	42	37	3 11	24	6	41
28	7 55	12 48	0 ♉30	20 31	3 38	2 47	3 48	18 22	14 8	19 37
29	8 53	13 59	2 31	4 ♋17	34	58	4 24	19	10	34
30	9 52	15 10	4 36	18 12	3 29	3 8	4 59	18 17	14 12	19 31

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1895

Full Moon April 9th in ♎ 19° 22′

Declination of the Planets

D	S T	☉ N	♀ N	☿ S	☽ N	♄ S	♅ N	♂ N	♃ S	♆ N
1	0 38	4 33	15 7	7 53	28 33	10 51	23 27	24 25	17 14	21 0
2	42	4 56	15 33	7 26	28 18	49	27	28	14	0
3	46	5 19	15 58	6 58	26 16	48	28	31	13	0
4	50	5 42	16 23	6 29	22 33	47	28	34	13	0
5	54	6 5	16 47	5 58	17 26	45	28	37	12	0
6	58	6 28	17 11	5 26	11 16	43	28	39	12	0
7	1 2	6 50	17 35	4 53	4 28	10 42	23 28	24 42	17 11	21 1
8	5	7 13	17 58	4 18	2 s34	40	28	44	11	1
9	9	7 35	18 20	3 43	9 24	39	29	46	10	1
10	13	7 58	18 43	3 6	15 38	38	29	48	10	1
11	17	8 20	19 4	2 28	20 56	36	29	49	9	2
12	21	8 42	19 25	1 49	24 58	35	29	51	8	2
13	25	9 3	19 46	1 10	27 33	33	29	52	7	2
14	1 29	9 25	20 6	0 28	28 35	10 31	23 29	24 54	17 7	21 2
15	33	9 47	20 26	0 N14	28 7	30	29	55	6	3
16	37	10 8	20 45	0 57	26 17	29	29	55	5	3
17	41	10 29	21 4	1 41	23 18	27	29	56	5	3
18	45	10 50	21 22	2 25	19 22	26	29	57	4	3
19	49	11 11	21 39	3 11	14 42	24	29	57	4	3
20	53	11 32	21 56	3 58	9 28	22	29	57	3	3
21	1 57	11 52	22 13	4 45	3 52	10 21	23 29	24 57	17 2	21 4
22	2 1	12 12	22 28	5 33	1 N57	19	29	57	2	4
23	5	12 32	22 43	6 22	7 48	18	29	57	1	4
24	9	12 52	22 58	7 12	13 27	17	29	57	1	4
25	13	13 12	23 12	8 1	18 39	15	29	56	0	4
26	16	13 31	23 25	8 52	23 5	13	29	55	0	4
27	20	13 51	23 38	9 43	26 23	12	29	54	16 59	5
28	2 24	14 10	23 50	10 34	28 14	10 11	23 29	24 53	16 59	21 5
29	28	14 28	24 1	11 25	28 22	9	29	52	58	5
30	2 32	14 47	24 12	12 16	26 44	10 7	23 28	24 50	16 57	21 5

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1895

New Moon May 24th in ♊ 3° 1′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♃	♂	♅	♆	♇
	° ♉′	° ♊′	° ♉′	° ♌′	° ♏′	° ♑′	° ♑′	° ♏′	° ♊′	° ♓′
1	10 50	16 21	6 43	2 14	3 R24	3 19	5 36	18R14	14 14	19 28
2	11 48	17 31	8 50	16 20	19	30	6 12	11	16	25
3	12 46	18 42	10 57	0 ♍31	15	40	6 49	9	18	22
4	13 44	19 52	13 7	14 45	10	51	7 25	6	20	18
5	14 42	21 3	15 18	28 59	6	4 2	8 1	4	23	15
6	15 40	22 14	17 27	13♎10	2	13	8 37	1	24	12
7	16 38	23 25	19 37	27 17	2 58	4 24	9 14	17 59	14 26	19 9
8	17 36	24 35	21 47	11♍13	53	36	9 50	57	28	6
9	18 34	25 45	23 58	24 56	49	47	10 26	55	30	3
10	19 32	26 56	26 8	8 ♐21	45	58	11 2	53	32	0
11	20 30	28 6	28 17	21 27	41	5 10	11 39	50	34	18 56
12	21 28	29 16	0♊24	4 ♑14	37	21	12 15	48	36	53
13	22 26	0♋26	2 29	16 42	33	32	12 51	45	39	50
14	23 24	1 36	4 32	28 53	2 29	5 44	13 27	17 42	14 41	18 47
15	24 22	2 45	6 33	10♒53	24	56	14 3	40	43	44
16	25 19	3 55	8 33	22 44	20	6 8	14 39	37	45	40
17	26 17	5 4	10 31	4 ♓33	16	20	15 16	35	47	37
18	27 15	6 14	12 27	16 25	12	31	15 52	32	49	34
19	28 13	7 24	14 19	28 25	8	43	16 29	30	52	31
20	29 10	8 33	16 7	10♈38	4	55	17 6	27	54	28
21	0 ♊ 8	9 42	17 53	23 7	2 1	7 7	17 42	17 25	14 56	18 25
22	1 6	10 51	19 37	5 ♉57	1 57	20	18 18	22	58	21
23	2 3	12 0	21 18	19 7	53	32	18 54	20	15 0	18
24	3 1	13 9	22 56	2 ♊37	49	44	19 30	17	2	15
25	3 59	14 18	24 30	16 25	46	56	20 7	15	4	12
26	4 56	15 26	26 1	0 ♋27	42	8 8	20 43	12	6	8
27	5 54	16 34	27 29	14 38	39	21	21 20	10	8	5
28	6 52	17 42	28 55	28 53	1 35	8 33	21 57	17 8	15 10	18 2
29	7 49	18 50	0♋17	13♌ 9	32	45	22 33	6	13	17 59
30	8 47	19 58	1 34	27 21	29	58	23 10	4	15	56
31	9 44	21 4	2 51	11♍29	1 26	9 10	23 47	17 1	15 17	17 53

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1895

Full Moon May 8th in ♏ 17° 36′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		N	N	N	N	S	N	N	S	N
1	2 36	15 5	24 22	13 7	23 25	10 6	23 28	24 49	16 56	21 6
2	40	23	31	13 57	18 42	5	28	47	55	6
3	44	41	40	14 48	12 57	3	28	45	55	7
4	48	59	48	15 37	6 30	2	28	43	54	7
5	52	16 16	56	16 26	0 s17	0	27	41	53	8
6	56	33	25 2	17 13	7 1	9 59	27	38	52	8
7	3 0	16 49	25 8	17 59	13 22	9 57	23 27	24 36	16 52	21 8
8	4	17 6	13	18 44	18 57	56	27	33	51	8
9	8	22	18	19 27	23 28	55	26	30	50	9
10	12	38	22	20 8	26 37	53	26	27	49	9
11	16	53	25	20 47	28 14	52	26	23	49	9
12	20	18 9	28	21 24	28 18	50	26	20	48	9
13	23	24	29	21 58	26 54	49	25	16	47	10
14	3 27	18 38	25 31	22 31	24 15	9 48	23 25	24 12	16 46	21 10
15	31	53	31	23 0	20 34	47	24	8	46	10
16	35	19 7	31	23 27	16 7	45	24	4	45	10
17	39	20	30	23 51	11 4	44	23	0	45	11
18	43	34	28	24 13	5 37	43	23	23 56	44	11
19	47	47	26	24 32	0 N 0	42	22	51	44	11
20	51	59	23	24 49	5 54	41	21	46	43	11
21	3 55	20 12	25 19	25 3	11 36	9 40	23 21	23 41	16 42	21 12
22	59	24	15	25 14	16 58	39	21	36	41	12
23	4 3	35	10	25 24	21 42	37	20	31	41	12
24	7	47	4	25 31	25 25	36	20	25	40	12
25	11	58	24 57	25 36	27 45	35	19	20	39	13
26	15	21 8	50	25 39	28 22	34	18	14	38	13
27	19	18	43	25 39	27 8	33	17	8	38	13
28	4 23	21 28	24 34	25 39	24 8	9 32	23 16	23 2	16 37	21 13
29	27	38	25	25 36	19 40	31	16	22 56	37	14
30	30	47	16	25 32	14 5	30	15	50	36	14
31	4 34	21 56	24 5	25 26	7 48	9 29	23 15	22 43	16 36	21 14

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1895

New Moon June 22nd in ♋ 0° 45′

Longitude of the Planets

D	☉	♀	☿	☽	♄	♅	♂	♃	♆	♇
	° ♊′	° ♋′	° ♋′	° ♍′	° ♍′	° ♋′	° ♋′	° ♍′	° ♊′	° ♓′
1	10 42	22 12	4 2	25 32	1 R24	9 23	24 23	16R59	15 20	17 50
2	11 39	23 19	5 10	9 ♎28	21	35	24 59	57	22	46
3	12 36	24 26	6 15	23 17	18	48	25 36	55	24	43
4	13 34	25 33	7 17	6 ♏58	15	10 1	26 13	52	26	40
5	14 31	26 40	8 14	20 30	12	14	26 50	50	29	37
6	15 29	27 47	9 8	3 ♐50	9	27	27 26	48	31	33
7	16 26	28 55	9 57	16 56	1 7	10 40	28 3	16 46	15 33	17 30
8	17 23	0 ♌ 2	10 45	29 48	5	52	28 40	44	35	27
9	18 21	1 8	11 25	12♑24	2	11 5	29 16	42	38	24
10	19 18	2 14	12 4	24 45	0	17	29 53	40	40	21
11	20 15	3 19	12 38	6 ♒53	0 58	30	0♌30	38	43	18
12	21 13	4 25	13 8	18 50	56	43	1 7	36	45	14
13	22 10	5 30	13 32	0 ♓40	54	56	1 44	34	47	11
14	23 7	6 36	13 54	12 28	0 52	12 10	2 21	16 33	15 50	17 8
15	24 5	7 42	14 11	24 20	50	24	2 58	31	52	5
16	25 2	8 47	14 23	6 ♈20	49	37	3 36	29	55	1
17	25 59	9 52	14 30	18 34	48	50	4 13	27	57	16 58
18	26 56	10 56	14 33	1 ♉ 7	46	13 3	4 50	25	59	55
19	27 54	12 0	14R30	14 3	45	17	5 26	23	16 1	52
20	28 51	13 5	14 25	27 23	43	30	6 3	21	3	49
21	29 48	14 9	14 15	11♊ 9	0 41	13 43	6 40	16 19	16 6	16 46
22	0♋45	15 12	14 0	25 16	40	56	7 17	18	8	43
23	1 43	16 16	13 41	9 ♋41	39	14 9	7 54	16	10	40
24	2 40	17 19	13 19	24 17	38	22	8 31	15	12	36
25	3 37	18 22	12 53	8 ♌51	37	36	9 8	14	14	33
26	4 34	19 23	12 24	23 33	36	49	9 45	13	16	30
27	5 32	20 24	11 53	8 ♍ 2	36	15 3	10 22	11	18	27
28	6 29	21 28	11 19	22 18	0 35	15 16	10 59	16 9	16 20	16 24
29	7 26	22 30	10 44	6 ♎21	35	30	11 36	8	22	21
30	8 23	23 32	10 8	20 11	0 35	15 44	12 13	16 7	16 24	16 17

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1895

Full Moon June 7th in ♐ 16° 26′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		N	N	N	N	S	N	N	S	N
1	4 38	22 4	23 55	25 18	1 11	9 29	23 14	22 36	16 34	21 15
2	42	12	43	10	5 s26	28	13	29	34	15
3	46	19	31	0	11 45	27	12	23	34	15
4	50	27	19	24 49	17 26	27	11	15	34	15
5	54	33	5	37	22 10	26	10	8	33	16
6	58	40	22 52	24	25 42	25	9	1	33	16
7	5 2	22 46	22 37	24 11	27 47	9 24	23 8	21 53	16 32	21 16
8	6	51	23	23 56	28 20	23	7	45	32	16
9	10	57	7	41	27 23	23	7	37	31	17
10	14	23 1	21 51	26	25 5	22	6	29	31	17
11	18	6	35	10	21 41	22	5	21	30	17
12	22	10	18	22 54	17 26	21	3	13	30	17
13	26	13	1	37	12 33	21	2	5	29	18
14	5 30	23 17	20 43	22 20	7 14	9 20	23 1	20 56	16 29	21 18
15	34	19	25	3	1 38	20	0	47	28	18
16	38	22	6	21 47	4 N 5	19	22 59	38	28	18
17	41	24	19 47	30	9 45	19	58	29	27	19
18	45	25	27	14	15 11	19	57	20	27	19
19	49	26	7	20 58	20 7	19	55	11	26	19
20	53	27	18 47	42	24 13	19	54	2	26	19
21	5 57	23 27	18 26	20 26	27 5	9 18	22 53	19 52	16 25	21 20
22	6 1	27	5	12	28 20	18	51	42	25	20
23	5	27	17 43	19 58	27 41	18	50	33	24	20
24	9	26	22	44	25 9	18	49	23	24	20
25	13	24	16 59	32	20 56	18	48	13	23	20
26	17	23	37	20	15 27	18	47	3	23	20
27	21	20	14	10	9 10	18	45	18 52	22	20
28	6 25	23 18	15 51	19 0	2 30	9 18	22 43	18 42	16 22	21 21
29	29	15	27	18 52	4 s12	18	42	31	22	21
30	6 33	23 11	15 4	18 45	10 35	9 18	22 41	18 21	16 21	21 21

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1895

Eclipse of Sun July 22nd in ♋ 29° 22′

Longitude of the Planets

D	☉	☿	♂	☽	♄	♃	♂	♅	♆	♇
	° ♋′	° ♌′	° ♋′	° ♏′	° ♏′	° ♋′	° ♌′	° ♏′	° ♊′	° ♓′
1	9 21	24 32	9 R31	3 46	0 R35	15 58	12 50	16R 5	16 26	16 14
2	10 18	25 33	8 55	17 9	35	16 11	13 27	4	28	11
3	11 15	26 33	8 20	0 ♐20	34	25	14 4	3	30	8
4	12 12	27 33	7 46	13 18	34	38	14 41	2	32	5
5	13 9	28 33	7 14	26 4	34	52	15 18	1	34	2
6	14 6	29 32	6 45	8 ♑38	D34	17 5	15 55	1	36	15 58
7	15 4	0♏32	6 19	21 0	0 34	17 19	16 32	16 0	16 38	15 55
8	16 1	1 31	5 57	3 ♒10	34	32	17 9	0	40	52
9	16 58	2 30	5 39	15 10	35	45	17 46	15 59	42	49
10	17 55	3 27	5 25	27 3	35	58	18 23	58	44	45
11	18 52	4 22	5 15	8 ♓51	36	18 12	18 59	58	46	42
12	19 50	5 21	5 12	20 39	37	26	19 36	57	48	39
13	20 47	6 18	5 D13	2 ♈30	38	39	20 13	56	50	36
14	21 44	7 15	5 20	14 29	0 39	18 52	20 53	15 55	16 52	15 33
15	22 41	8 10	5 31	26 43	40	19 5	21 28	54	54	30
16	23 39	9 4	5 50	9 ♉15	41	19	22 7	53	56	26
17	24 36	10 0	6 13	22 10	42	33	22 44	53	58	23
18	25 33	10 54	6 41	5 ♊32	43	46	23 22	52	17 0	20
19	26 30	11 46	7 16	19 22	45	59	23 59	52	1	17
20	27 28	12 39	7 53	3 ♋38	46	20 12	24 36	52	3	14
21	28 25	13 32	8 41	18 16	0 48	20 26	25 14	15 52	17 5	15 11
22	29 22	14 24	9 31	3 ♌ 9	50	3[illegible] 25	52	51	7	7
23	0♌20	15 14	10 26	18 9	52	52	26 29	51	9	4
24	1 17	16 4	11 28	3 ♍ 7	53	21 5	27 7	51	11	1
25	2 14	16 54	12 36	17 55	55	18	27 44	D51	13	14 58
26	3 12	17 44	13 47	2 ♎27	57	31	28 22	51	15	55
27	4 9	18 32	15 5	16 41	59	45	29 0	52	16	52
28	5 6	19 20	16 26	0 ♍34	1 2	21 59	29 37	15 52	17 18	14 48
29	6 4	20 8	17 51	14 7	5	22 12	0♍14	52	20	45
30	7 1	20 54	19 23	27 21	7	25	0 52	53	21	42
31	7 59	21 37	20 57	10 ♐18	1 10	22 38	1 30	15 53	17 22	14 39

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1895

Full Moon July 6th in ♈ 14° 6′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		N	N	N	S	S	N	N	S	N
1	6 37	23 8	14 40	18 39	16 21	9 18	22 39	18 10	16 21	21 21
2	41	3	14 16	34	21 15	18	38	17 59	21	21
3	45	22 59	13 51	30	25 1	18	36	48	20	22
4	48	54	13 27	28	27 26	18	35	37	20	22
5	52	48	13 2	28	28 21	19	33	26	20	22
6	56	42	12 37	28	27 48	19	32	14	20	22
7	7 0	22 36	12 12	18 30	25 51	9 20	22 30	17 3	16 19	21 23
8	4	30	11 46	33	22 43	20	28	16 51	19	23
9	8	23	11 21	38	18 40	20	26	39	19	23
10	12	15	10 55	44	13 55	20	25	28	19	23
11	16	7	10 29	50	8 42	21	23	16	18	23
12	20	21 59	10 3	58	3 10	21	21	4	18	23
13	24	51	9 37	19 7	2 N29	22	19	15 52	18	24
14	7 28	21 42	9 11	19 16	8 7	9 23	22 17	15 39	16 18	21 24
15	32	33	8 45	26	13 33	24	16	27	17	24
16	36	23	8 19	37	18 35	24	14	15	17	24
17	40	13	7 52	48	22 56	25	12	2	17	24
18	44	3	7 26	20 0	26 14	25	11	14 50	17	24
19	48	20 52	7 0	12	28 8	26	9	37	17	25
20	52	41	6 33	23	28 14	27	7	24	17	25
21	7 56	20 29	6 7	20 34	26 24	9 28	22 5	14 11	16 17	21 25
22	59	18	5 41	45	22 43	29	3	13 58	17	25
23	8 3	6	5 14	56	17 30	30	1	45	17	25
24	7	19 53	4 48	21 6	11 14	31	21 59	32	17	25
25	11	40	4 22	14	4 24	32	57	19	17	25
26	15	27	3 56	22	2 S32	33	55	5	17	25
27	19	14	3 29	28	9 11	34	53	12 52	17	26
28	8 23	19 0	3 4	21 33	15 14	9 35	21 51	12 38	16 17	21 26
29	27	18 46	2 38	36	20 24	36	49	25	18	26
30	31	32	2 12	38	24 26	37	47	11	18	26
31	8 35	18 17	1 46	21 37	27 8	9 38	21 45	11 57	16 18	21 26

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1895

Eclipse of Sun August 20th in ♌ 27° 10′

Longitude of the Planets

D	☉	☿	♀	☽		♄	♅	♂	♃	♆	♇
	° ♌ ′	° ♍ ′	° ♋ ′	° ♑ ′		° ♏ ′	° ♋ ′	° ♍ ′	° ♏ ′	° ♊ ′	° ♓ ′
1	8 56	22 23	22 36	23 0	1	12	22 52	2 8	15 54	17 25	14 36
2	9 53	23 5	24 19	5 ♈30		15	23 5	2 45	54	27	32
3	10 51	23 48	26 6	17 47		17	18	3 23	55	28	29
4	11 48	24 29	27 56	29 55		20	31	4 1	55	29	26
5	12 46	25 9	29 49	11♉55		23	44	4 39	56	30	23
6	13 43	25 48	1♌45	23 49		26	57	5 16	56	31	20
7	14 41	26 26	3 43	5 ♊38	1	30	24 10	5 54	15 57	17 33	14 17
8	15 38	27 4	5 41	17 25		33	23	6 32	58	35	13
9	16 36	27 39	7 42	29 13		36	36	7 10	58	36	10
10	17 33	28 14	9 45	11♈ 5		39	49	7 48	59	37	7
11	18 31	28 48	11 47	23 6		43	25 2	8 26	16 0	39	4
12	19 29	29 19	13 49	5 ♉20		47	15	9 4	1	41	1
13	20 26	29 48	15 53	17 50		50	27	9 41	2	42	13 58
14	21 24	0♎17	17 54	0 ♊43	1	54	25 40	10 19	16 3	17 43	13 54
15	22 22	0 45	19 56	14 0		58	53	10 57	4	44	51
16	23 19	1 10	21 58	27 44	2	2	26 5	11 35	5	45	48
17	24 17	1 34	23 58	11♋56		6	17	12 13	6	46	45
18	25 15	2 0	25 58	26 33		11	30	12 51	7	47	42
19	26 12	2 20	27 57	11♌29		15	43	13 29	9	48	39
20	27 10	2 39	29 55	26 38		19	55	14 7	11	49	35
21	28 8	2 56	1♍52	11♍49	2	23	27 8	14 46	16 12	17 50	13 32
22	29 6	3 10	3 48	26 53		28	21	15 24	14	51	29
23	0 ♍ 4	3 23	5 42	11♎42		32	34	16 3	15	52	26
24	1 2	3 34	7 35	26 10		37	46	16 41	17	53	22
25	2 0	3 45	9 26	10♏13		41	58	17 20	18	54	19
26	2 58	3 51	11 16	23 52		46	28 11	17 59	20	55	16
27	3 56	3 57	13 6	7 ♐ 6		51	23	18 37	21	55	13
28	4 54	3 59	14 54	19 59	2	55	28 35	19 16	16 23	17 56	13 10
29	5 52	3 R59	16 40	2 ♑33	3	0	47	19 53	25	56	7
30	6 50	3 57	18 26	14 52		5	59	20 31	27	57	3
31	7 48	3 53	20 9	26 58	3	10	29 11	21 9	16 29	17 57	13 0

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1895

Full Moon August 5th in ♒ 12° 46′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		N	N	N	S	S	N	N	S	N
1	8 39	18 2	1 21	21 34	28 23	9 39	21 43	11 43	16 18	21 26
2	43	17 47	0 56	21 28	28 9	40	40	30	18	26
3	47	31	31	21 21	26 31	42	38	16	18	26
4	51	15	6	21 10	23 40	43	36	2	18	26
5	55	16 59	s18	20 57	19 49	44	34	10 47	18	27
6	59	43	42	20 41	15 13	45	32	33	18	27
7	9 3	16 26	1 6	20 23	10 4	9 47	21 30	10 19	16 18	21 27
8	6	9	30	20 2	4 36	48	28	5	18	27
9	10	15 52	53	19 38	1 N 2	49	26	9 50	19	27
10	14	35	2 16	19 12	6 40	50	23	36	19	27
11	18	17	38	18 44	12 8	52	21	21	19	27
12	22	14 59	3 0	18 13	17 14	54	19	7	19	27
13	26	41	22	17 40	21 44	55	17	8 52	20	27
14	9 30	14 23	3 43	17 6	25 20	9 57	21 14	8 37	16 20	21 27
15	34	4	4 4	16 29	27 43	58	12	22	21	27
16	38	13 45	24	15 51	28 31	10 0	10	8	21	27
17	42	26	43	15 12	27 30	1	8	7 53	22	28
18	46	7	5 2	14 32	24 36	3	5	38	22	28
19	50	12 47	21	13 50	19 59	5	3	23	22	28
20	54	28	39	13 7	14 2	7	0	8	22	28
21	9 58	12 8	5 56	12 24	7 14	10 8	20 58	6 53	16 23	21 28
22	10 2	11 48	6 12	11 40	0 4	10	56	37	23	28
23	6	27	27	10 55	6 s59	12	54	22	24	28
24	10	7	42	10 10	13 29	13	51	7	24	28
25	14	10 46	56	9 24	19 7	15	49	5 52	25	28
26	17	25	7 9	8 38	23 36	17	47	36	25	28
27	21	4	21	7 52	26 42	19	45	21	26	28
28	10 25	9 43	7 32	7 6	28 19	10 20	20 42	5 6	16 26	21 28
29	29	22	42	6 20	28 25	22	40	4 50	27	28
30	33	1	51	5 33	27 5	24	37	35	27	28
31	10 37	8 39	7 59	4 47	24 30	10 26	20 35	4 19	16 28	21 28

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1895

Eclipse of Sun September 18th in ♍ 25° 18′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♍′	° ♎′	° ♍′	° ♒′	° ♏′	° ♑′	° ♌′	° ♏′	° ♊′	° ♓′
1	8 46	3 46	21 51	8 56	3 15	29 23	21 46	16 31	17 58	12 57
2	9 44	3 R37	23 32	20 49	20	35	22 25	33	59	54
3	10 42	3 25	25 13	2 ♓37	25	46	23 5	34	59	51
4	11 40	3 11	26 58	14 25	30	57	23 42	36	18 0	47
5	12 38	2 55	28 29	26 14	36	0 ♌ 8	24 21	38	0	44
6	13 37	2 36	0 ♎ 8	8 ♈ 7	41	19	25 0	40	1	41
7	14 35	2 16	1 43	20 5	3 47	0 30	25 39	16 42	18 1	12 38
8	15 33	1 52	3 17	2 ♉ 12	53	42	26 18	44	2	35
9	16 31	1 28	4 51	14 31	59	53	26 57	47	2	32
10	17 30	1 0	6 24	27 4	4 5	1 5	27 36	49	3	28
11	18 28	0 31	7 55	9 ♊56	10	16	28 14	52	3	25
12	19 26	0 1	9 25	23 8	16	26	28 53	55	3	22
13	20 25	29♍30	10 52	6 ♋43	21	37	29 32	57	4	19
14	21 23	29 0	12 20	20 44	4 27	1 48	0♎11	17 0	18 4	12 16
15	22 22	28 20	13 47	5 ♌ 8	33	58	0 49	2	4	13
16	23 21	27 45	15 12	19 53	39	2 8	1 29	5	4	9
17	24 19	27 8	16 36	4 ♍54	45	19	2 8	7	5	6
18	25 18	26 31	17 59	20 2	51	30	2 47	10	5	3
19	26 16	25 54	19 19	5 ♎ 9	57	40	3 26	12	5	0
20	27 15	25 18	20 40	20 7	5 3	50	4 5	15	5	11 57
21	28 14	24 41	22 0	4 ♏45	5 10	3 1	4 44	17 18	18 5	11 54
22	29 13	24 6	23 16	19 0	16	12	5 23	21	♐ 5	50
23	0♎11	23 30	24 33	2 ♐48	22	22	6 2	23	5	47
24	1 10	22 55	25 48	16 8	29	33	6 41	26	5	44
25	2 9	22 21	27 1	29 3	36	42	7 20	29	5	41
26	3 8	21 50	28 13	11♑36	42	52	7 59	32	5	38
27	4 7	21 19	29 24	23 51	49	4 1	8 39	35	4	35
28	5 6	20 51	0♏29	5 ♒52	5 55	4 11	9 18	17 38	18 4	11 31
29	6 5	20 24	1 34	17 45	6 2	20	9 58	41	4	28
30	7 4	19 57	2 39	29 33	6 9	4 29	10 37	17 44	18 3	11 25

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EPHEMERIS OF THE PLANETS' PLACES
Calculated for Mean Noon at Greenwich
September, 1895
Eclipse of Moon September 4th in ♓ 11° 40′
Declination of the Planets

D	S T	☉ N	♀ S	☿ N	☽ S	♄ S	♃ N	♂ N	♅ S	♆ N
1	10 41	8 17	8 5	4 1	20 53	10 28	20 33	4 4	16 29	21 28
2	45	7 55	11	3 15	16 27	30	30	3 48	29	28
3	49	7 33	15	2 29	11 26	32	28	33	30	28
4	53	7 11	17	1 43	6 0	34	26	17	30	28
5	57	6 49	19	0 58	0 22	36	24	1	31	28
6	11 1	6 27	19	0 13	5 N18	38	22	2 46	31	28
7	11 5	6 4	8 18	0 s 32	10 50	10 40	20 19	2 30	16 32	21 28
8	9	5 42	15	1 16	16 1	42	16	14	33	28
9	13	5 19	11	2 0	20 39	44	14	1 58	34	28
10	17	4 56	5	2 44	24 28	46	12	43	34	28
11	21	4 34	7 58	3 27	27 11	48	10	27	35	28
12	24	4 11	50	4 9	28 29	50	7	11	36	28
13	28	3 48	41	4 51	28 7	52	5	0 55	37	28
14	11 32	3 25	7 30	5 33	25 59	10 54	20 3	0 39	16 37	21 28
15	36	3 2	17	6 14	22 9	56	1	23	38	28
16	40	2 39	4	6 54	16 50	58	19 58	7	39	28
17	44	2 15	6 50	7 34	10 25	11 1	56	s 8	40	28
18	48	1 52	34	8 13	3 21	3	54	24	40	28
19	52	1 29	18	8 51	3 s54	5	52	40	41	28
20	56	1 5	0	9 29	10 50	7	49	56	42	28
21	12 0	0 42	5 42	10 6	17 2	11 10	19 47	1 12	16 43	21 28
22	4	0 19	24	10 42	22 7	12	45	28	43	28
23	8	0 s 5	5	11 17	25 49	14	43	44	44	28
24	12	0 28	4 45	11 51	27 58	16	41	2 0	45	28
25	16	0 52	25	12 25	28 31	18	39	16	46	28
26	20	1 15	5	12 57	27 33	21	36	32	46	28
27	24	1 38	3 45	13 28	25 16	23	34	48	47	28
28	12 28	2 2	3 25	13 59	21 53	11 25	19 32	3 3	16 48	21 28
29	31	2 25	6	14 28	17 39	27	30	19	49	28
30	12 35	2 48	2 46	14 56	12 46	11 30	19 28	3 35	16 50	21 28

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1895

New Moon October 18th in ♎ 24° 51′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♃	♂	♅	♆	♇
	° ♎′	° ♏′	° ♍′	° ♈′	° ♍′	° ♌′	° ♎′	° ♍′	° ♓′	° ♈′
1	8 3	19 35	3 39	11 20	6 15	4 39	11 17	17 47	18R 3	11 22
2	9 2	19R15	4 37	23 10	22	48	11 57	50	3	18
3	10 1	18 56	5 33	5 ♉ 4	29	57	12 36	53	2	15
4	11 0	18 40	6 25	17 6	36	5 5	13 16	56	2	12
5	11 59	18 27	7 14	29 16	42	13	13 55	59	1	9
6	12 58	18 16	8 0	11 ♊ 36	49	22	14 34	18 2	1	6
7	13 57	18 8	8 41	24 7	6 56	5 30	15 14	18 6	18 0	11 3
8	14 57	18 1	9 19	6 ♋ 51	7 3	39	15 53	9	0	0
9	15 56	17 59	9 51	19 49	9	47	16 33	12	17 59	10 56
10	16 55	17 57	10 19	3 ♌ 3	16	56	17 13	15	59	53
11	17 55	17D59	10 41	16 34	23	6 3	17 52	18	58	50
12	18 54	18 2	10 57	0 ♍ 23	30	10	18 32	21	57	47
13	19 54	18 7	11 5	14 31	37	17	19 12	25	57	44
14	20 53	18 15	11 8	28 56	7 44	6 24	19 52	18 28	17 56	10 40
15	21 53	18 25	11R 0	13♎37	51	31	20 31	31	55	37
16	22 52	18 38	10 48	28 28	58	38	21 11	35	54	34
17	23 52	18 53	10 26	13♏23	8 5	45	21 51	38	53	31
18	24 51	19 10	9 55	28 13	12	52	22 31	42	52	28
19	25 51	19 29	9 14	12♐50	19	59	23 11	45	51	25
20	26 51	19 49	8 27	27 7	26	7 6	23 52	49	50	21
21	27 51	20 10	7 31	11 ♑ 0	8 33	7 13	24 32	18 52	17 50	10 18
22	28 50	20 34	6 27	24 26	40	19	25 12	56	49	15
23	29 50	21 0	5 17	7 ♒ 25	47	25	25 53	19 0	48	12
24	0♎50	21 27	4 4	20 0	54	31	26 33	4	47	8
25	1 50	21 58	2 48	2 ♓ 16	9 1	37	27 13	7	46	5
26	2 50	22 29	1 31	14 17	9	43	27 54	11	45	2
27	3 50	23 1	0 18	26 9	16	48	28 34	15	44	9 59
28	4 50	23 34	29♏8	7 ♈ 56	9 24	7 53	29 15	19 18	17 43	9 56
29	5 49	24 9	28 5	19 44	31	58	29 55	22	41	53
30	6 49	24 45	27 10	1 ♉ 37	38	8 3	0♎36	25	40	50
31	7 49	25 23	26 27	13 38	9 45	8 8	1 16	19 29	17 39	9 47

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1895

Full Moon October 3rd in ♈ 10° 1′

Declination of the Planets

D	S T	☉ S	♀ S	☿ S	☽ S	♄ S	♃ N	♂ S	♅ S	♆ N
1	12 40	3 12	2 27	15 22	7 26	11 32	19 26	3 51	16 51	21 27
2	44	3 35	8	15 47	1 51	34	24	4 7	52	27
3	48	3 58	1 50	16 11	3 N51	37	22	23	53	27
4	52	4 21	33	16 33	9 27	39	20	38	53	27
5	56	4 45	16	16 54	14 46	41	18	54	54	27
6	13 0	5 8	0	17 13	19 34	43	16	5 10	55	27
7	13 3	5 31	0 45	17 29	23 36	11 46	19 14	5 26	16 56	21 27
8	7	5 54	30	17 44	26 34	48	13	41	57	27
9	11	6 17	17	17 56	28 12	50	11	57	58	27
10	15	6 39	4	18 6	28 17	52	9	6 13	59	27
11	19	7 2	N 8	18 14	26 42	55	7	28	17 0	27
12	23	7 25	18	18 18	23 29	57	6	44	1	27
13	27	7 47	28	18 19	18 49	12 0	4	7 0	2	27
14	13 31	8 10	0 37	18 17	12 59	12 2	19 2	7 15	17 3	21 27
15	35	8 32	45	18 11	6 20	4	0	31	4	26
16	39	8 54	52	18 1	0 S43	7	18 59	46	5	26
17	43	9 16	58	17 47	7 45	9	57	8 1	6	26
18	47	9 38	1 3	17 29	14 19	11	56	17	7	26
19	51	10 0	7	17 6	19 59	14	54	32	8	26
20	55	10 22	10	16 39	24 22	16	53	47	9	26
21	13 59	10 43	1 12	16 7	27 12	12 18	18 51	9 3	17 10	21 26
22	14 3	11 4	14	15 31	28 21	21	50	18	11	26
23	7	11 25	14	14 51	27 53	23	48	33	12	25
24	11	11 46	14	14 8	25 57	25	47	48	13	25
25	14	12 7	13	13 24	22 51	28	46	10 3	14	25
26	18	12 28	11	12 38	18 49	30	45	18	15	25
27	22	12 48	1 8	11 53	14 6	32	43	33	16	25
28	14 26	13 8	1 4	11 9	8 55	12 34	18 42	10 47	17 16	21 25
29	30	13 28	0	10 28	3 24	37	41	11 2	17	25
30	34	13 48	0N 54	9 51	2 N15	39	39	17	18	25
31	14 38	14 8	0 48	9 19	7 53	12 41	18 38	11 31	17 19	21 24

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1895

New Moon November 16th in ♏ 23° 54′

Longitude of the Planets

D	☉	☿	♂	☽	♃	♄	♅	♆	♇	☊
	° ♏′	° ♏′	° ♎′	° ♈′	° ♏′	° ♌′	° ♏′	° ♏′	° ♊′	° ♓′
1	8 50	26 3	25R53	25 50	9 52	8 13	1 57	19 33	17R39	9 43
2	9 50	26 42	25 30	8 ♉15	59	18	2 37	36	38	40
3	10 50	27 25	25 21	20 53	10 7	22	3 17	40	36	37
4	11 50	28 7	25D24	3 ♊43	14	27	3 57	44	34	34
5	12 50	28 50	25 34	16 47	21	31	4 37	48	33	31
6	13 50	29 35	25 57	0 ♋ 2	28	35	5 21	52	31	27
7	14 50	0♎21	26 28	13 28	10 35	8 38	6 1	19 56	17 30	9 24
8	15 51	1 7	27 6	27 5	42	41	6 42	20 0	29	21
9	16 51	1 55	27 56	10♌53	49	44	7 23	4	28	18
10	17 51	2 45	28 50	24 51	57	47	8 4	7	27	15
11	18 52	3 33	29 52	9 ♍ 0	11 4	50	8 44	11	26	12
12	19 52	4 24	0♏57	23 19	11	52	9 25	15	24	8
13	20 53	5 15	2 8	7 ♎45	18	55	10 7	18	22	5
14	21 53	6 7	3 22	22 15	11 26	8 57	10 47	20 22	17 21	9 2
15	22 54	7 0	4 39	6 ♏43	33	59	11 28	26	19	8 59
16	23 54	7 52	6 1	21 3	40	9 1	12 10	30	17	55
17	24 55	8 47	7 24	5 ♐ 9	47	3	12 51	34	15	52
18	25 55	9 42	8 48	18 55	54	4	13 32	37	14	49
19	26 56	10 36	10 15	2 ♑19	12 2	5	14 13	41	12	46
20	27 56	11 32	11 43	15 18	9	6	14 54	45	11	43
21	28 57	12 28	13 11	27 55	12 16	9 7	15 35	20 48	17 9	8 40
22	29 58	13 26	14 41	10♒12	23	8	16 16	52	8	37
23	0♐58	14 23	16 13	22 14	30	9	16 59	55	6	34
24	1 59	15 20	17 43	4 ♓ 6	37	9	17 40	59	4	30
25	3 0	16 19	19 16	15 54	44	9	18 22	21 3	3	27
26	4 1	17 18	20 48	27 43	51	9	19 3	7	1	24
27	5 1	18 17	22 21	9 ♈38	58	R 9	19 45	10	16 59	21
28	6 2	19 17	23 52	21 44	13 5	9 8	20 27	21 14	16 58	8 17
29	7 3	20 17	25 27	4 ♉ 5	12	8	21 9	18	56	14
30	8 4	21 18	27 0	16 42	13 19	9 7	21 50	21 22	16 54	8 11

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1895

Full Moon November 2nd in ♉ 9° 50′

Declination of the Planets

D	S T	☉ S	♀ N	☿ S	☽ N	♄ S	♃ N	♂ S	♅ S	♆ N
1	14 42	14 27	0 42	8 52	13 18	12 44	18 37	11 46	17 21	21 24
2	46	46	34	31	18 17	46	37	12 0	22	24
3	49	15 5	26	16	22 34	48	36	15	23	24
4	53	24	18	6	25 50	50	35	29	24	24
5	57	42	8	3	27 48	53	34	43	25	24
6	15 1	16 0	s 2	4	28 14	55	33	57	26	24
7	15 5	16 18	0 13	8 11	27 0	12 57	18 32	13 11	17 27	21 23
8	9	36	24	22	24 10	59	32	25	28	23
9	13	53	36	37	19 55	13 2	31	39	29	23
10	17	17 10	48	55	14 32	4	31	53	30	23
11	21	27	1 1	9 16	8 19	6	30	14 7	31	23
12	25	43	14	40	1 37	9	30	20	32	23
13	29	59	28	10 6	5 s13	.11	29	34	33	22
14	15 33	18 15	1 43	10 34	11 48	13 13	18 29	14 47	17 34	21 22
15	37	31	57	11 3	17 44	15	28	15 1	35	22
16	41	46	2 13	34	22 37	17	28	14	36	22
17	45	19 1	28	12 5	26 6	19	27	27	37	22
18	49	15	44	37	27 56	21	27	40	38	22
19	53	29	3 1	13 9	28 4	23	27	53	39	21
20	57	43	18	42	26 37	25	27	16 5	40	21
21	16 0	19 56	3 35	14 14	23 51	13 28	18 27	16 18	17 41	21 21
22	4	20 9	52	47	20 3	30	27	30	42	21
23	8	22	4 10	15 19	15 29	32	27	43	43	21
24	12	34	28	51	10 25	34	27	55	44	21
25	16	46	47	16 23	5 0	36	27	17 7	45	20
26	20	58	5 5	54	0 N35	38	27	19	46	20
27	24	21 9	24	17 25	6 11	40	28	31	47	20
28	16 28	21 20	5 43	17 55	11 39	13 42	18 28	17 43	17 48	21 20
29	32	30	6 2	18 25	16 46	44	28	54	49	20
30	16 36	21 40	6 22	18 53	21 18	13 46	18 29	18 6	17 50	21 19

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1895

New Moon December 16th in ♐ 24° 19′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♐′		° ♑′	° ♏′	° ♉′	° ♏′	° ♌′	° ♏′	° ♏′	° ♓′	° ♓′
1	9	5	22	20	28	34	29	38	13	26	9 ℞ 6	22	32	21	25	16℞52	8	8
2	10	5	23	23	0	♐ 6	12♊	51		32	5	23	14		28	50		5
3	11	6	24	25	1	40	26	18		38	4	23	55		31	48		2
4	12	7	25	28	3	12	9	♋59		45	2	24	37		34	47	7	58
5	13	8	26	30	4	47	23	48		51	1	25	18		38	45		55
6	14	9	27	33	6	21	7	♌44		58	8	59	26	0		41		44		52
7	15	10	28	37	7	53	21	44	14	4	8	57	26	43	21	45	16	42	7	49
8	16	11	29	41	9	28	5	♍46		10		54	27	27		48		41		46
9	17	12	0♍	45	11	2	19	50		17		51	28	9		♑52		39		43
10	18	13	1	49	12	34	3	♎56		23		48	28	51		55		37		39
11	19	14	2	54	14	8	18	2		29		45	29	33		59		35		36
12	20	15	3	59	15	42	2	♍ 6		36		42	0	♐ 15	22	2		34		33
13	21	16	5	5	17	16	16	6		42		38	0	56		6		32		30
14	22	17	6	11	18	50	0	♐ 0	14	48	8	35	1	38	22	10	16	31	7	27
15	23	18	7	17	20	24	13	42		54		31	2	21		14		29		24
16	24	19	8	23	21	57	27	9	15	0		28	3	3		17		28		20
17	25	20	9	29	23	33	10♑	19		7		24	3	46		20		26		17
18	26	21	10	35	25	7	23	10		13		19	4	28		23		24		14
19	27	23	11	42	26	42	5	♒42		19		14	5	10		26		22		11
20	28	24	12	50	28	17	17	58		25		9	5	52		29		21		8
21	29	25	13	57	29	52	29	59	15	31	8	4	6	35	22	33	16	19	7	5
22	0♑	26	15	5	1♑	28	11	♓52		37		0	7	17		36		18		1
23	1	27	16	12	3	4	23	39		43	7	55	7	59		39		16	6	58
24	2	28	17	20	4	40	5	♈28		49		49	8	42		42		15		55
25	3	29	18	28	6	16	17	23		54		43	9	25		45		13		52
26	4	30	19	37	7	52	29	31		59		37	10	8		48		11		48
27	5	32	20	46	9	29	11	♉54	16	5		32	10	52		51		9		45
28	6	33	21	54	11	5	24	38	16	10	7	26	11	35	22	54	16	7	6	42
29	7	34	23	3	12	42	7	♊43		16		20	12	18		57		6		39
30	8	35	24	12	14	21	21	12		21		14	13	1	23	0		4		36
31	9	36	25	22	15	58	5	♋ 0	16	27	7	8	13	43	23	3	16	2	6	33

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1895

Full Moon December 2nd in ♊ 10° 5′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		S	S	S	N	S	N	S	S	N
1	16 40	21 50	6 41	19 21	24 55	13 48	18 29	18 17	17 51	21 19
2	44	59	7 1	48	27 18	50	29	28	51	19
3	48	22 7	21	20 14	28 9	52	30	39	52	19
4	52	16	41	40	27 18	54	31	50	53	19
5	56	23	8 1	21 4	24 46	55	32	19 1	54	19
6	17 0	31	22	27	20 45	57	32	11	55	19
7	17 4	22 38	8 42	21 50	15 33	13 59	18 33	19 22	17 56	21 18
8	7	44	9 2	22 11	9 32	14 0	34	32	57	18
9	11	50	23	31	3 1	3	35	42	58	18
10	15	56	43	50	3 S38	5	36	52	59	18
11	19	23 1	10 4	23 8	10 7	6	37	20 2	18 0	18
12	23	6	24	25	16 4	8	38	11	0	18
13	27	10	45	41	21 9	10	39	21	1	18
14	17 31	23 14	11 5	23 55	25 2	14 12	18 40	20 30	18 2	21 18
15	35	17	26	24 8	27 24	13	41	39	3	17
16	39	20	46	20	28 7	15	42	48	4	17
17	43	22	12 6	31	27 13	17	44	57	5	17
18	47	24	26	40	24 51	19	45	21 5	6	17
19	51	26	46	48	21 20	20	46	13	7	17
20	55	27	13 6	55	16 57	22	48	22	8	17
21	17 59	23 27	13 26	25 0	11 58	14 23	18 49	21 29	18 8	21 16
22	18 3	27	45	4	6 38	24	50	37	9	16
23	7	27	14 5	7	1 5	26	52	45	10	16
24	11	26	24	8	4 N29	28	54	52	11	16
25	15	25	43	8	9 57	29	55	59	12	16
26	18	23	15 2	6	15 9	31	56	22 6	12	16
27	22	20	20	3	19 50	32	59	13	13	15
28	18 26	23 18	15 38	24 58	23 46	14 34	19 0	22 20	18 14	21 15
29	30	14	16 56	52	26 37	35	2	26	15	15
30	34	11	14	44	28 2	37	4	32	15	15
31	18 38	23 6	16 32	24 34	27 46	14 38	19 6	22 38	18 16	21 15

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TABLE OF PROPORTIONAL LOGARITHMS

Min.	Hours or Degrees											
	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3780	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	35	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	66 98	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5692	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1872	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3395	16

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	82
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	10	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	56	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1896

New Moon January 14th in ♑ 23° 52′

Longitude of the Planets

D	☉	☿	♂	☽	♃	♅	♄	♆	♇	♁
	° ♑′	° ♏′	° ♑′	° ♋′	° ♏′	° ♐′	° ♐′	° ♏′	° ♊′	° ♓′
1	10 37	26 32	17 35	19 5	16 33	7 R 2	14 25	23 6	16R 1	6 30
2	11 38	27 41	19 13	3 ♌23	38	6 56	15 8	9	0	26
3	12 40	28 50	20 51	17 46	42	50	15 52	11	15 58	23
4	13 41	0 ♐ 0	22 29	2 ♍10	47	43	16 35	14	57	20
5	14 42	1 10	24 7	16 31	53	36	17 18	16	55	17
6	15 43	2 20	25 46	0 ♎46	57	29	18 1	18	54	14
7	16 44	3 30	27 26	14 53	17 2	6 21	18 44	23 21	15 52	6 11
8	17 45	4 40	29 5	28 51	7	14	19 27	24	51	7
9	18 46	5 50	0♒45	12♍40	12	7	20 10	26	50	4
10	19 48	7 0	2 26	26 18	16	1	20 54	29	48	1
11	20 49	8 11	4 5	9 ♐45	20 5	55	21 37	31	46 5	58
12	21 50	9 22	5 42	23 1	25	47	22 21	33	45	54
13	22 51	10 33	7 18	6 ♑ 3	30	40	23 4	35	44	51
14	23 52	11 43	8 53	18 52	17 34 5	33	23 47	23 38	15 43 5	48
15	24 53	12 54	10 28	1 ♒27	37	25	24 31	40	41	45
16	25 54	14 6	12 0	13 48	41	17	25 15	42	40	41
17	26 56	15 17	13 32	25 57	45	9	25 59	44	39	39
18	27 57	16 28	15 1	7 ♓55	49	1	26 43	47	38	35
19	28 58	17 39	16 28	19 46	52 4	53	27 27	49	37	32
20	29 59	18 50	17 48	1 ♈34	56	45	28 10	51	36	29
21	1 ♒ 0	20 2	19 8	13 22	17 59 4	37	28 54	23 53	15 35 5	26
22	2 1	21 14	20 22	25 16	18 2	29	29 38	55	34	23
23	3 2	22 25	21 32	7 ♉21	5	21	0♑22	57	33	20
24	4 3	23 37	22 34	19 42	9	12	1 5	59	32	16
25	5 4	24 48	23 29	2 ♊24	12	3	1 49	24 0	31	13
26	6 5	26 0	24 17	15 29	15 3	54	2 33	2	30	10
27	7 6	27 12	24 58	29 1	18	46	3 17	3	29	7
28	8 7	28 24	25 28	12♋57	18 21 3	38	4 1	24 5	15 28 5	4
29	9 8	29 36	25 47	27 17	24	30	4 45	6	27	1
30	10 9	0♑49	25 56	11♌55	27	22	5 29	7	26 4	57
31	11 10	2 1	25 57	26 43	18 31 3	15	6 14	24 9	15 25 4	54

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1896

Full Moon January 30th in ♌ 10° 9′

Declination of the Planets

D	S T	☉ S	♀ S	☿ S	☽ N	♄ S	♅ N	♂ S	♃ S	♆ N
1	18 42	23 2	16 49	24 23	25 43	14 39	19 7	22 44	18 17	21 15
2	46	22 57	17 6	24 11	22 1	40	9	50	17	15
3	50	51	22	23 57	16 57	42	11	55	18	15
4	54	45	38	23 41	10 56	43	13	23 0	18	15
5	58	39	54	23 24	4 21	44	15	5	19	14
6	19 2	32	18 9	23 5	2 s23	45	17	10	20	14
7	19 6	22 24	18 24	22 45	8 56	14 46	19 19	23 14	18 21	21 14
8	10	17	39	22 23	14 58	47	21	22	22	14
9	14	8	53	21 59	20 11	49	23	22	22	14
10	18	0	19 7	21 34	24 17	50	25	26	22	14
11	22	21 50	20	21 8	27 0	51	27	30	23	14
12	25	41	33	20 40	28 9	52	29	33	23	14
13	29	31	45	20 11	27 42	53	31	36	24	13
14	19 33	21 21	19 57	19 40	25 46	14 54	19 33	23 39	18 24	21 13
15	37	10	20 9	19 9	22 34	55	35	41	25	13
16	41	20 59	20	18 36	18 25	56	37	44	25	13
17	45	47	30	18 2	13 34	57	39	46	26	13
18	49	35	40	17 28	8 16	58	41	48	26	13
19	53	23	49	16 53	2 45	59	43	49	27	13
20	57	10	58	16 18	2 N50	59	45	51	27	13
21	20 1	19 57	21 6	15 42	8 20	15 0	19 47	23 52	18 28	21 13
22	5	43	14	15 7	13 35	1	49	53	28	13
23	9	29	21	14 32	18 23	2	51	54	29	13
24	13	15	28	13 59	22 33	2	53	54	29	13
25	17	1	34	13 26	25 46	3	55	54	30	13
26	21	18 46	39	12 55	27 45	4	57	54	30	13
27	25	30	44	12 27	28 11	5	59	54	31	13
28	20 29	18 15	21 48	12 1	26 52	15 5	20 1	23 54	18 31	21 13
29	32	17 59	52	11 38	23 47	6	3	53	32	12
30	36	43	55	11 18	19 6	6	3	52	32	12
31	20 40	17 26	21 57	11 2	13 13	15 7	20 7	23 51	18 32	21 12

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1896

Eclipse of Sun February 13th in ♒ 24° 19′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♃	♆	♇
	° ♒′	° ♑′	° ♒′	° ♍′	° ♍′	° ♌′	° ♑′	° ♍′	° ♊′	° ♓′
1	12 10	3 14	25R42	11 35	18 33	3 R 7	6 59	24 11	15R24	4 51
2	13 11	4 26	25 29	26 23	35	2 59	7 43	13	23	48
3	14 12	5 38	24 44	11♎ 1	37	52	8 27	15	23	45
4	15 13	6 51	23 58	25 23	40	43	9 10	16	22	41
5	16 14	8 3	23 6	9 ♍29	43	35	9 54	17	22	38
6	17 14	9 15	22 5	23 15	45	28	10 39	18	21	35
7	18 15	10 27	20 59	6 ♐44	18 47	2 21	11 23	24 20	15 21	4 32
8	19 16	11 39	19 50	19 55	50	13	12 8	21	20	29
9	20 17	12 52	18 40	2 ♑50	51	6	12 52	22	20	26
10	21 17	14 5	17 29	15 31	53	1 58	13 37	23	19	22
11	22 18	15 17	16 21	27 59	55	51	14 21	24	19	19
12	23 19	16 30	15 15	10♒16	56	44	15 5	25	18	16
13	24 19	17 43	14 16	22 24	58	36	15 51	26	18	13
14	25 20	18 56	13 24	4 ♓23	18 59	1 30	16 35	24 27	15 17	4 10
15	26 21	20 9	12 36	16 16	19 1	23	17 19	28	17	7
16	27 21	21 22	11 57	28 5	2	16	18 4	29	17	3
17	28 22	22 34	11 26	9 ♈52	3	10	18 49	30	16	0
18	29 22	23 46	11 2	21 42	4	3	19 34	30	16	3 57
19	0♓23	24 59	10 45	3 ♉36	4	0 57	20 18	30	16	54
20	1 23	26 12	10 36	15 40	5	51	21 3	31	15	50
21	2 24	27 25	10 36	27 58	19 5	0 45	21 47	24 31	15 15	3 47
22	3 24	28 38	10D39	10♊35	6	39	22 32	31	15	44
23	4 24	29 51	10 50	23 34	6	33	23 17	31	15	41
24	5 25	1 ♒ 4	11 8	6 ♋58	7	27	24 1	32	15	38
25	6 25	2 18	11 31	20 49	7	21	24 46	32	D15	35
26	7 25	3 32	11 58	5 ♌ 7	7	16	25 31	32	15	31
27	8 26	4 46	12 30	19 49	7	12	26 16	32	15	28
28	9 26	6 0	13 7	4 ♍49	19R 7	0 7	27 0	24 32	15 15	3 25
29	10 26	7 13	13 48	19 58	19 7	0 2	27 45	24 32	15 16	3 22

Fellowship Press, Oceanside, Calif.

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1896

Eclipse of Moon February 28th in ♍ 9° 26′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	S	S	N	S	N	S	S	N
1	20 44	17 9	21 59	10 51	6 33	15 7	20 9	23 49	18 33	21 12
2	48	16 52	22 0	43	0 S26	7	11	47	33	12
3	52	16 35	1	40	7 18	8	13	45	34	12
4	56	16 17	0	42	13 41	8	15	43	34	12
5	21 0	15 59	0	47	19 13	9	17	41	35	12
6	4	15 41	21 58	57	23 37	9	19	38	35	12
7	21 8	15 22	21 56	11 10	26 38	15 10	20 20	23 35	18 35	21 12
8	12	15 3	54	26	28 7	10	22	32	35	12
9	16	14 44	50	44	28 2	11	24	28	35	12
10	20	14 25	46	12 4	26 28	11	26	25	35	12
11	24	14 5	42	26	23 36	11	27	21	36	12
12	28	13 45	37	48	19 42	11	29	17	36	12
13	32	13 25	31	13 10	15 2	11	30	12	36	12
14	21 36	13 5	21 24	13 32	9 51	15 11	20 32	23 7	18 36	21 12
15	40	12 44	17	53	4 21	12	33	3	36	12
16	43	12 24	10	14 14	1 N15	12	36	22 57	36	12
17	47	12 3	1	33	6 48	12	36	52	37	12
18	51	11 42	20 52	50	12 7	12	38	46	37	12
19	55	11 21	43	15 7	17 2	12	39	40	37	12
20	59	10 59	33	21	21 22	12	41	34	37	12
21	22 3	10 38	20 22	15 34	24 51	15 12	20 42	22 28	18 37	21 12
22	7	10 16	10	45	27 15	12	43	21	37	12
23	11	9 54	19 59	55	28 17	12	44	15	37	12
24	15	9 32	46	16 3	27 42	12	46	8	37	12
25	19	9 10	33	9	25 24	11	47	0	37	13
26	23	8 47	19	14	21 28	11	48	21 53	37	13
27	27	8 25	5	16	16 5	11	49	45	37	13
28	22 31	8 2	18 50	16 18	9 39	15 11	20 50	21 37	18 37	21 13
29	22 35	7 39	18 35	16 17	2 36	15 11	20 51	21 29	18 37	21 13

Fellowship Press, Oceanside, Calif.

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1896

New Moon March 14th in ♓ 24° 25′

Longitude of the Planets

D	☉	☿	☿	☽	♄	♅	♂	♆	♃	♀
	° ♓′	° ♒′	° ♒′	° ♑′	° ♏′	° ♌′	° ♍′	° ♏′	° ♊′	° ♓′
1	11 26	8 26	14 32	5 8	19R 7	29R58	28 30	24R32	15 16	3 19
2	12 26	9 39	15 22	20 9	6	53	29 15	32	16	16
3	13 26	10 52	16 15	4 ♏53	6	49	0 ♒ 0	31	16	13
4	14 26	12 5	17 9	19 15	5	45	0 45	31	17	9
5	15 26	13 18	18 8	3 ♐12	5	41	1 30	31	17	6
6	16 26	14 31	19 7	16 43	4	38	2 17	30	17	3
7	17 26	15 45	20 11	29 50	19 4	29 34	3 3	24 30	15 18	3 0
8	18 26	16 58	21 17	12♍36	3	31	3 50	30	18	2 57
9	19 26	18 11	22 25	25 4	2	28	4 36	29	19	54
10	20 26	19 24	23 34	7 ♒19	0	25	5 21	29	19	50
11	21 26	20 37	24 48	19 22	18 58	22	6 6	28	20	47
12	22 26	21 50	26 0	1 ♓19	57	20	6 50	27	20	44
13	23 26	23 3	27 18	13 10	55	18	7 36	26	21	41
14	24 25	24 16	28 34	24 58	18 53	29 16	8 21	24 25	15 21	2 37
15	25 25	25 29	29 53	6 ♈46	51	14	9 6	24	22	34
16	26 25	26 42	1♓15	18 36	49	12	9 51	24	22	31
17	27 25	27 56	2 38	0 ♉29	47	10	10 36	23	23	28
18	28 24	29 9	4 1	12 29	45	9	11 21	22	24	25
19	29 24	0♓22	5 26	24 37	43	8	12 7	21	24	22
20	0♈23	1 36	6 54	6 ♊56	41	7	12 53	20	25	18
21	1 23	2 50	8 22	19 31	18 39	29 6	13 38	24 18	15 26	2 15
22	2 22	4 3	9 53	2 ♋24	36	5	14 24	17	27	12
23	3 22	5 17	11 26	15 40	34	5	15 10	16	28	9
24	4 21	6 31	12 57	29 20	31	5	15 55	14	29	6
25	5 21	7 45	14 31	13♌26	29	D 5	16 39	12	30	3
26	6 20	8 58	16 8	27 57	26	5	17 24	11	31	1 59
27	7 19	10 11	17 45	12♍50	24	6	18 9	9	32	56
28	8 18	11 24	19 24	27 59	18 21	29 6	18 54	24 7	15 34	1 53
29	9 18	12 38	21 3	13♎15	18	7	19 40	6	35	50
30	10 17	13 52	22 45	28 28	15	8	20 25	5	36	47
31	11 16	15 6	24 26	13♏26	18 12	29 9	21 12	24 3	15 37	1 44

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1896

Full Moon March 29th in ♎ 9° 18′

Declination of the Planets

D	S T	☉	☿	♀	☽	♄	♅	♂	♃	♆
		S	S	S	S	S	N	S	S	N
1	22 39	7 17	16 15	18 19	4 35	15 10	20 52	21 21	18 37	21 13
2	43	6 54	16 11	18 3	11 26	10	53	12	37	13
3	47	6 31	16 6	17 46	17 32	10	54	3	37	13
4	50	6 8	16 0	17 29	22 28	10	55	20 54	37	13
5	54	5 44	15 51	17 11	26 0	9	56	45	37	13
6	58	5 21	15 42	16 52	27 55	9	56	36	37	13
7	23 2	4 58	15 30	16 33	28 12	15 8	20 57	20 26	18 37	21 14
8	6	4 34	15 18	16 14	26 57	8	57	16	37	14
9	10	4 11	15 4	15 54	24 23	7	58	6	37	14
10	14	3 47	14 48	15 34	20 44	.. 7	59	19 56	37	14
11	18	3 24	14 31	15 13	16 16	6	21 0	45	36	14
12	22	3 0	14 13	14 52	11 13	6	0	34	36	14
13	26	2 36	13 53	14 31	5 49	5	1	23	36	14
14	23 30	2 13	13 32	14 9	0 14	15 5	21 1	19 12	18 36	21 14
15	34	1 49	13 10	13 47	5 N20	4	1	1	36	14
16	38	1 25	12 46	13 24	10 44	3	1	18 50	36	14
17	42	1 2	12 21	13 1	15 46	2	2	38	35	15
18	46	0 38	11 54	12 37	20 15	2	2	26	35	15
19	50	0 14	11 27	12 14	23 57	1	2	14	35	15
20	54	0 N10	10 58	11 50	26 38	1	2	2	35	15
21	23 58	0 33	10 28	11 25	28 3	14 59	21 3	17 50	18 34	21 15
22	0 1	0 57	9 56	11 0	28 0	59	3	37	34	15
23	5	1 20	9 24	10 35	26 23	58	3	25	34	15
24	9	1 44	8 50	10 10	23 10	57	3	11	34	15
25	13	2 8	8 15	9 45	18 31	56	3	16 58	33	16
26	17	2 31	7 39	9 19	12 39	55	3	45	33	16
27	21	2 55	7 1	8 53	5 57	54	3	32	32	16
28	0 25	3 18	6 23	8 26	1 S12	14 53	21 3	16 18	18 32	21 16
29	29	3 41	5 43	8 0	8 19	52	2	4	31	16
30	33	4 5	5 2	7 33	14 55	51	2	15 51	31	16
31	0 37	4 28	4 20	7 6	20 20 32	14 50	21 2	15 37	18 31	21 16

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1896

New Moon April 13th in ♈ 24° 2′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♈′	° ♓′	° ♓′	° ♌′	° ♎′	° ♑′	° ♐′	° ♑′	° ♊′	° ♓′
1	12 15	16 19	26 10	28 3	18R 9	29 10	21 57	24R 1	15 38	1 40
2	13 14	17 32	27 57	12 ♉ 12	6	12	22 42	23 59	39	37
3	14 13	18 45	29 42	25 52	3	14	23 28	58	41	34
4	15 12	19 59	1 ♈ 32	9 ♍ 4	17 59	16	24 14	56	42	31
5	16 11	21 12	3 21	21 51	56	18	25 0	55	44	28
6	17 10	22 25	5 12	4 ♐ 16	52	20	25 46	53	45	24
7	18 9	23 39	7 4	16 25	17 48	29 22	26 31	23 51	15 46	1 21
8	19 8	24 53	8 58	28 22	44	25	27 17	49	48	18
9	20 7	26 6	10 54	10 ♑ 12	41	28	28 3	47	50	15
10	21 6	27 20	12 52	21 59	37	31	28 48	45	52	12
11	22 5	28 33	14 50	3 ♈ 47	34	34	29 33	43	54	9
12	23 4	29 47	16 50	15 37	30	37	0 ♑ 18	41	55	5
13	24 2	1 ♈ 1	18 50	27 32	26	40	1 4	39	57	2
14	25 1	2 15	20 53	9 ♉ 33	17 22	29 44	1 50	23 37	15 58	0 59
15	26 0	3 29	22 58	21 42	18	48	2 36	35	16 0	56
16	26 58	4 42	25 3	4 ♊ 0	14	52	3 22	33	1	53
17	27 57	5 55	27 8	16 28	10	56	4 7	31	2	50
18	28 56	7 9	29 16	29 9	6	0 ♎ 1	4 53	28	4	46
19	29 54	8 22	1 ♉ 24	12 ♋ 5	2	5	5 39	26	5	43
20	0 ♉ 53	9 35	3 32	25 17	16 58	10	6 25	24	6	40
21	1 51	10 49	5 41	8 ♎ 49	16 53	0 14	7 10	23 22	16 8	0 37
22	2 50	12 3	7 49	22 43	49	19	7 56	20	10	34
23	3 48	13 16	9 57	6 ♍ 59	44	24	8 42	18	12	31
24	4 46	14 30	12 2	21 35	40	30	9 28	16	14	27
25	5 45	15 43	14 9	6 ♏ 29	35	36	10 12	14	16	24
26	6 43	16 57	16 14	21 33	31	42	10 58	12	18	21
27	7 41	18 10	18 18	6 ♐ 39	27	48	11 44	10	20	18
28	8 39	19 23	20 19	21 36	16 23	0 54	12 29	23 7	16 22	0 15
29	9 38	20 37	22 19	6 ♑ 15	18	1 0	13 13	5	24	12
30	10 36	21 51	24 17	20 30	16 14	1 6	13 59	23 2	16 25	0 8

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1896

Full Moon April 27th in ♏ 7° 41'

Declination of the Planets

D	S T	☉ N	♀ S	♂ S	☽ S	♄ S	♃ N	♂ S	♅ S	♆ N
1	0 41	4 51	6 38	3 37	24 46	14 49	21 2	15 22	18 30	21 17
2	45	5 14	6 11	2 53	27 20	48	2	8	30	17
3	49	5 37	5 43	2 8	28 9	47	1	14 54	30	17
4	53	6 0	5 16	1 22	27 19	46	1	39	30	17
5	57	6 22	4 48	0 35	25 2	45	0	24	29	18
6	1 1	6 45	4 20	0 N13	21 37	44	0	10	29	18
7	1 5	7 8	3 51	1 3	17 20	14 43	20 59	13 55	18 28	21 18
8	8	7 30	3 23	1 52	12 26	42	59	40	28	18
9	12	7 52	2 55	2 43	7 8	41	58	24	27	18
10	16	8 14	2 26	3 35	1 37	40	58	9	27	18
11	20	8 36	1 58	4 27	3 N56	38	57	12 54	26	19
12	24	8 58	1 29	5 20	9 22	37	56	38	26	19
13	28	9 20	1 0	6 13	14 30	36	55	22	25	19
14	1 32	9 42	0 31	7 7	19 8	14 35	20 54	12 6	18 25	21 19
15	36	10 3	0 2	8 1	23 2	34	53	11 51	24	20
16	40	10 24	0 N26	8 56	25 57	32	53	35	24	20
17	44	10 45	0 55	9 50	27 40	31	52	18	23	20
18	48	11 6	1 24	10 45	27 59	30	51	2	23	20
19	52	11 27	1 53	11 39	26 47	29	50	10 46	22	20
20	56	11 47	2 22	12 33	24 4	27	49	30	22	20
21	2 0	12 8	2 51	13 26	19 59	14 26	20 48	10 13	18 21	21 21
22	4	12 28	3 19	14 18	14 42	25	46	9 57	21	21
23	8	12 48	3 48	15 9	8 31	24	45	40	20	21
24	12	13 7	4 17	15 59	1 45	22	44	23	20	21
25	15	13 27	4 45	16 48	5 S15	21	43	7	19	22
26	19	13 46	5 14	17 34	12 0	20	41	8 50	19	22
27	23	14 5	5 42	18 19	18 4	19	40	33	18	22
28	2 27	14 24	6 10	19 2	22 59	14 17	20 39	8 16	18 17	21 22
29	31	14 43	6 39	19 43	26 19	16	38	7 59	16	22
30	2 35	15 1	7 7	20 22	27 52	14 15	20 36	7 42	18 15	21 23

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1896

New Moon May 12th in ♉ 22° 12′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♉ ′	° ♈ ′	° ♉ ′	° ♍ ′	° ♏ ′	° ♌ ′	° ♓ ′	° ♏ ′	° ♊ ′	° ♓ ′
1	11 34	23 4	26 13	4 17	16R 9	1 13	14 45	23R 0	16 27	0 5
2	12 32	24 18	28 5	17 34	4	20	15 30	22 57	29	2
3	13 30	25 32	29 53	0 ♒24	15 59	26	16 16	55	31	29 ♒59
4	14 28	26 46	1♊41	12 52	55	33	17 2	52	♋	55
5	15 26	27 59	3 23	25 2	51	40	17 47	50	35	52
6	16 24	29 12	5 2	6 ♐58	46	47	18 32	47	37	49
7	17 22	0♉25	6 36	18 48	15 41	1 55	19 18	22 45	16 39	29 46
8	18 20	1 39	8 9	0 ♈35	36	2 2	20 4	42	41	43
9	19 18	2 53	9 39	12 24	32	10	20 49	40	43	40
10	20 16	4 7	11 3	24 18	27	18	21 34	37	45	36
11	21 14	5 20	12 24	6 ♉20	23	25	22 19	34	47	33
12	22 12	6 34	13 39	18 32	19	33	23 5	31	49	30
13	23 10	7 48	14 52	0 ♊54	15	41	23 50	29	51	27
14	24 8	9 1	16 1	13 27	15 11	2 50	24 35	22 26	16 53	29 24
15	25 6	10 15	17 5	26 12	7	58	25 20	23	55	21
16	26 4	11 28	18 7	9 ♋ 7	2	3 6	26 6	21	57	17
17	27 1	12 41	19 3	22 15	14 57	14	26 51	19	59	14
18	27 59	13 54	19 55	5 ♌35	52	23	27 35	16	17 1	11
19	28 57	15 8	20 42	19 9	48	32	28 21	13	3	8
20	29 55	16 22	21 25	2 ♍58	44	41	29 6	11	5	5
21	0♊52	17 35	22 5	17 3	14 40	3 50	29 52	22 8	17 7	29 2
22	1 50	18 48	22 39	1 ♎23	36	58	0♈37	5	10	28 58
23	2 47	20 2	23 9	15 56	31	4 7	1 22	3	12	55
24	3 45	21 15	23 35	0 ♍39	27	16	2 7	1	14	52
25	4 43	22 29	23 56	15 24	23	25	2 52	21 59	16	49
26	5 40	23 42	24 12	0 ♐ 3	19	35	3 37	56	19	46
27	6 38	24 56	24 21	14 30	15	45	4 22	54	21	43
28	7 35	26 10	24 29	28 37	14 11	4 55	5 7	21 52	17 23	28 39
29	8 33	27 24	24 29	12♑20	7	5 6	5 50	50	25	36
30	9 30	28 37	24R 28	25 37	3	16	6 35	47	27	33
31	10 28	29 51	24 21	8 ♒28	14 0	5 26	7 19	21 45	17 30	28 30

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1896

Full Moon May 26th in ♐ 5° 40′

Declination of the Planets

☉	S T	☉ N	♀ N	♂ N	☽ S	♄ S	♅ N	♃ S	♆ S	♇ N
1	2 39	15 19	7 35	20 58	27 36	14 14	20 35	7 24	18 14	21 23
2	43	15 37	8 2	21 31	25 44	12	33	7 7	14	23
3	47	15 54	8 30	22 3	22 34	11	32	6 50	13	23
4	51	16 12	8 57	31	18 27	10	30	6 33	13	23
5	55	16 29	9 24	58	13 39	9	29	6 15	12	24
6	59	16 45	9 51	23 21	8 26	7	27	5 58	11	24
7	3 3	17 2	10 18	23 42	2 59	14 6	20 26	5 40	18 10	21 25
8	7	17 18	10 45	24 1	2 N33	5	24	5 23	10	25
9	11	17 34	11 11	18	8 0	4	22	5 6	9	25
10	15	17 50	11 37	32	13 12	2	20	4 48	9	25
11	19	18 5	12 3	44	17 58	1	19	4 30	8	26
12	23	18 20	12 28	53	22 4	0	17	4 13	8	26
13	26	18 35	12 53	25 1	25 14	13 59	15	3 55	7	26
14	3 30	18 49	13 18	25 7	27 15	13 57	20 13	3 38	18 7	21 26
15	34	19 3	13 43	10	27 52	56	11	3 20	6	26
16	38	19 17	14 7	12	26 59	55	9	3 2	6	26
17	42	19 30	14 31	12	24 35	54	7	2 45	5	27
18	46	19 44	14 55	11	20 50	53	5	2 27	5	27
19	50	19 56	15 18	8	15 54	52	3	2 9	4	27
20	54	20 9	15 41	3	10 5	50	1	1 52	4	27
21	3 58	20 21	16 3	24 57	3 40	13 49	19 59	1 34	18 2	21 28
22	4 2	20 33	16 25	50	3 S 2	48	57	1 17	2	28
23	6	20 44	16 47	41	9 40	47	55	0 59	1	28
24	10	20 55	17 8	31	15 51	46	53	0 41	1	28
25	14	21 6	17 29	19	21 7	45	50	0 24	0	28
26	18	21 16	17 49	7	25 4	44	48	0 6	0	28
27	22	21 26	18 9	23 54	27 20	43	46	0 N11	17 59	29
28	4 26	21 35	18 28	23 39	27 46	13 42	19 44	0 29	17 59	21 29
29	30	21 45	18 47	24	26 28	41	41	0 46	58	29
30	33	21 53	19 6	8	23 40	40	39	1 4	57	29
31	4 37	22 2	19 24	22 52	19 46	13 39	19 36	1 21	17 56	21 30

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1896

New Moon June 11th in ♊ 20° 59'

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♊′	° ♊′	° ♊′	° ♒′	° ♍′	° ♌′	° ♈′	° ♍′	° ♊′	° ♒
1	11 25	1 4	24R10	20 58	13R57	5 36	8 4	21R42	17 32	28 27
2	12 23	2 17	23 54	3 ♓10	53	46	8 48	40	34	23
3	13 20	3 30	23 34	15 9	50	56	9 32	37	37	20
4	14 17	4 44	23 12	27 0	46	6 6	10 17	35	39	17
5	15 15	5 58	22 47	8 ♈49	42	16	11 2	33	41	14
6	16 12	7 11	22 18	20 41	39	27	11 46	31	43	11
7	17 10	8 25	21 48	2 ♉40	13 36	6 37	12 30	21 29	17 46	28 8
8	18 7	9 38	21 15	14 49	32	47	13 14	27	48	4
9	19 4	10 52	20 43	27 11	29	57	13 58	25	50	1
10	20 2	12 5	20 8	9 ♊47	26	7 8	14 42	23	52	27 58
11	20 59	13 19	19 36	22 38	23	19	15 26	21	54	55
12	21 56	14 32	19 3	5 ♋42	20	30	16 10	19	56	52
13	22 54	15 46	18 31	18 58	17	40	16 53	18	58	49
14	23 51	17 0	18 0	2 ♌26	13 14	7 51	17 37	21 16	18 0	27 45
15	24 48	18 13	17 34	16 4	11	8 3	18 20	14	2	42
16	25 46	19 27	17 8	29 51	8	14	19 3	12	5	39
17	26 43	20 41	16 46	13♍47	5	26	19 47	10	7	36
18	27 40	21 53	16 27	27 51	2	38	20 30	8	9	32
19	28 37	23 6	16 13	12♎ 3	12 59	49	21 14	7	12	29
20	29 35	24 20	16 3	26 20	57	59	21 58	5	14	26
21	0♋32	25 34	15 56	10♏40	12 55	9 10	22 42	21 3	18 16	27 23
22	1 29	26 47	15 54	24 59	53	22	23 26	1	18	20
23	2 26	28 1	15D57	9 ♐13	51	34	24 9	20 59	21	17
24	3 23	29 15	16 5	23 15	49	46	24 52	57	23	13
25	4 21	0♋29	16 17	7 ♑ 3	46	58	25 36	55	25	10
26	5 18	1 43	16 35	20 31	44	10 10	26 18	53	27	7
27	6 15	2 57	16 57	3 ♒38	42	22	27 1	52	30	4
28	7 12	4 11	17 23	16 25	12 41	10 34	27 43	20 50	18 32	27 1
29	8 9	5 24	17 54	28 52	40	46	28 26	49	34	26 58
30	9 7	6 38	18 32	11♓ 4	12 38	10 58	29 9	20 48	18 36	26 55

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1896

Full Moon June 25th in ♈ 4° 21'

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ S	♄ S	♅ N	♂ N	♃ S	♆ N
1	4 41	22 10	19 41	22 34	15 5	13 38	19 34	1 39	17 55	21 30
2	45	18	58	16	9 54	37	31	56	55	30
3	49	25	20 14	21 58	4 27	36	29	2 13	54	30
4	53	32	30	40	1 N 5	35	27	31	54	30
5	57	38	46	21	6 34	34	24	48	53	31
6	5 1	44	21 0	3	11 50	34	21	3 5	53	31
7	5 5	22 50	21 14	20 45	16 42	13 33	19 18	3 22	17 52	21 31
8	9	55	28	27	20 59	32	15	39	52	31
9	13	23 0	41	9	24 27	31	13	56	51	32
10	17	5	53	19 53	26 47	30	10	4 13	51	32
11	21	9	22 5	37	27 47	29	7	30	50	32
12	25	13	16	22	27 15	29	5	47	50	32
13	29	16	27	8	25 10	28	2	5 3	49	33
14	5 33	23 19	22 36	18 56	21 38	13 28	19 59	5 20	17 49	21 33
15	37	21	46	45	16 54	27	18 56	37	48	33
16	41	23	54	36	11 14	27	53	53	48	33
17	44	25	23 2	28	4 58	26	50	6 10	47	33
18	48	26	9	22	1 S 36	26	47	26	47	33
19	52	27	16	18	8 8	25	44	42	46	34
20	56	27	22	15	14 17	25	41	58	46	34
21	6 0	23 27	23 27	18 15	19 41	13 24	18 38	7 14	17 45	21 34
22	4	27	31	16	23 58	24	35	30	45	34
23	8	26	35	18	26 45	23	32	46	44	34
24	12	25	38	23	27 48	23	29	8 2	44	34
25	16	23	41	28	27 6	22	26	18	43	35
26	20	21	43	36	24 48	22	22	33	43	35
27	24	18	44	44	21 13	21	19	49	42	35
28	6 28	23 15	23 44	18 54	16 42	13 21	18 17	9 4	17 42	21 35
29	32	12	44	19 6	11 35	21	13	20	42	36
30	6 36	23 8	23 43	19 18	6 8	13 21	18 10	9 35	17 41	21 36

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1896

New Moon July 10th in ♋ 18° 39′

Longitude of the Planets

D	☉	☿	♂	☽	♄	♃	♂	♅	♆	♇
	° ♋ ′	° ♋ ′	° ♊ ′	° ♈ ′	° ♏ ′	° ♌ ′	° ♈ ′	° ♏ ′	° ♊ ′	° ♒
1	10 4	7 52	19 12	23 4	12R37	11 11	29 51	20R47	18 38	26 51
2	11 1	9 6	19 58	4 ♈57	36	23	0 ♉33	45	40	48
3	11 58	10 19	20 48	16 48	34	35	1 15	44	42	45
4	12 55	11 32	21 43	28 41	33	46	1 58	43	45	42
5	13 53	12 46	22 42	10 ♉43	32	57	2 40	41	47	39
6	14 50	14 0	23 46	22 57	31	12 10	3 22	40	49	35
7	15 47	15 14	24 55	5 ♊26	12 30	12 22	4 3	20 39	18 51	26 32
8	16 44	16 27	26 6	18 12	29	35	4 44	38	53	29
9	17 41	17 41	27 23	1 ♋17	28	47	5 26	37	55	26
10	18 39	18 55	28 45	14 40	28	13 0	6 8	36	57	23
11	19 36	20 8	0♋11	28 19	28	13	6 50	36	59	20
12	20 33	21 22	1 40	12♌11	28	25	7 32	35	19 1	17
13	21 30	22 36	3 13	26 14	27	38	8 13	34	3	13
14	22 28	23 50	4 49	10♍24	12 27	13 50	8 54	20 34	19 5	26 10
15	23 25	25 4	6 30	24 37	27	14 3	9 34	33	7	8
16	24 22	26 17	8 12	8 ♎52	27	16	10 15	32	9	4
17	25 19	27 31	10 1	23 5	D27	29	10 56	32	11	1
18	26 17	28 45	11 51	7 ♏15	27	42	11 37	32	13	25 57
19	27 14	29 59	13 45	21 20	27	54	12 18	31	14	54
20	28 11	1♌13	15 41	5 ♐17	28	15 6	12 59	31	16	51
21	29 8	2 28	17 41	19 4	12 28	15 20	13 39	20 30	19 18	25 48
22	0 ♌ 6	3 43	19 41	2 ♑40	29	33	14 18	30	20	44
23	1 3	4 58	21 43	16 2	29	46	14 58	29	21	41
24	2 0	6 13	23 46	29 8	30	16 0	15 38	29	23	38
25	2 58	7 27	25 50	11♒59	31	13	16 18	29	25	35
26	3 55	8 40	27 56	24 34	32	26	16 58	28	27	32
27	4 52	9 53	0 ♌ 3	6 ♓54	34	38	17 38	28	28	29
28	5 50	11 6	2 11	19 2	12 35	16 50	18 18	20 28	19 30	25 25
29	6 47	12 20	4 20	1 ♈ 1	36	17 2	18 57	28	32	22
30	7 44	13 34	6 24	12 53	38	15	19 36	28	34	19
31	8 42	14 48	8 28	24 44	12 39	17 28	20 15	20 28	19 35	25 16

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1896

Full Moon July 24th in ♒ 2° 0′

Declination of the Planets

D.	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		N	N	N	S	S	N	N	S	N
1	6 40	23 4	23 41	19 31	0 33	13 20	18 6	9 50	17 40	21 36
2	44	0	38	45	4 N59	20	3	10 5	40	36
3	48	22 55	35	59	10 20	20	0	20	40	36
4	51	50	31	20 14	15 19	20	17 56	34	40	36
5	55	44	27	30	19 47	20	53	49	39	37
6	59	38	21	45	23 30	20	49	11 4	39	37
7	7 3	22 31	23 15	21 0	26 13	13 20	17 46	11 18	17 39	21 37
8	7	24	9	16	27 40	20	42	32	39	37
9	11	17	1	31	27 37	20	39	46	38	37
10	15	9	22 53	45	25 59	20	35	12 0	38	37
11	19	1	45	59	22 47	20	32	14	38	38
12	23	21 53	35	22 11	18 15	20	28	28	38	38
13	27	44	25	23	12 40	20	25	41	38	38
14	7 31	21 35	22 15	22 33	6 23	13 20	17 21	12 55	17 38	21 38
15	35	25	3	42	0 S15	21	17	13 8	37	28
16	39	15	21 51	49	6 51	21	13	21	37	38
17	43	5	39	54	13 6	21	10	34	37	38
18	47	20 54	25	57	18 38	21	6	47	37	38
19	51	43	11	58	23 8	22	3	14 0	37	39
20	55	32	20 57	56	26 15	22	16 59	13	37	39
21	7 59	20 20	20 42	22 52	27 45	13 23	16 55	14 25	17 37	21 39
22	8 2	8	26	46	27 33	23	51	37	37	39
23	6	19 56	10	36	25 44	24	48	49	37	39
24	10	43	19 53	24	22 33	24	44	15 1	37	39
25	14	30	36	9	18 19	25	40	13	37	39
26	18	17	18	21 52	13 21	25	36	25	37	39
27	22	3	18 59	32	7 56	26	32	37	37	40
28	8 26	18 49	18 40	21 9	2 20	13 26	16 28	15 48	17 37	21 40
29	30	35	21	20 44	3 N16	27	24	59	37	40
30	34	21	1	17	8 43	27	20	16 10	37	40
31	8 38	18 6	17 40	19 48	13 50	13 28	16 17	16 21	17 37	21 40

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1896

Eclipse of Sun August 9th in ♌ 17° 19′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♌ ′	° ♌ ′	° ♌ ′	° ♑ ′	° ♏ ′	° ♌ ′	° ♑ ′	° ♏ ′	° ♊ ′	° ♒
1	9 39	16 2	10 33	6 39	12 41	17 41	20 53	20 28	19 36	25 13
2	10 37	17 15	12 34	18 40	42	53	21 32	28	38	10
3	11 34	18 29	14 38	0 ♊ 55	44	18 6	22 11	29	39	7
4	12 32	19 43	16 37	13 25	45	20	22 49	29	40	3
5	13 29	20 57	18 37	26 15	47	33	23 27	29	42	0
6	14 27	22 10	20 36	9 ♋ 28	49	46	24 5	30	43	24 57
7	15 24	23 24	22 33	23 2	12 51	18 59	24 43	20 30	19 45	24 54
8	16 22	24 38	24 29	6 ♌ 58	54	19 12	25 20	31	46	50
9	17 19	25 52	26 23	21 13	56	25	25 58	31	48	47
10	18 17	27 6	28 16	5 ♍ 41	59	38	26 35	32	49	44
11	19 15	28 20	0 ♍ 8	20 17	13 2	51	27 13	33	50	41
12	20 12	29 34	1 58	4 ♎ 56	4	20 5	27 50	34	51	38
13	21 10	0 ♍ 48	3 45	19 30	6	18	28 28	34	53	35
14	22 8	2 2	5 33	3 ♍ 56	13 9	20 32	29 4	20 35	19 54	24 31
15	23 5	3 16	7 18	18 10	12	46	29 40	36	56	28
16	24 3	4 30	9 5	2 ♐ 9	15	21 0	0 ♊ 16	36	57	25
17	25 1	5 44	10 46	15 52	18	13	0 51	37	58	22
18	25 58	6 59	12 28	29 20	22	26	1 27	38	59	19
19	26 56	8 14	14 6	12 ♑ 33	25	39	2 2	39	20 0	16
20	27 54	9 29	15 45	25 31	29	52	2 37	40	1	12
21	28 52	10 43	17 23	8 ♒ 15	13 32	22 5	3 13	20 41	20 2	24 9
22	29 50	11 57	18 57	20 47	35	18	3 47	42	3	6
23	0 ♍ 48	13 11	20 31	3 ♓ 7	38	30	4 23	43	4	3
24	1 45	14 25	22 5	15 17	41	43	4 57	45	5	0
25	2 43	15 39	23 36	27 19	45	56	5 32	46	6	23 57
26	3 41	16 53	25 7	9 ♈ 14	49	23 9	6 6	48	7	53
27	4 39	18 8	26 36	21 6	52	22	6 40	49	8	50
28	5 37	19 21	28 3	2 ♉ 56	13 57	23 34	7 13	20 51	20 9	23 47
29	6 35	20 35	29 28	14 50	14 1	47	7 47	52	10	44
30	7 33	21 49	0 ♎ 54	26 50	4	24 0	8 20	54	11	41
31	8 31	23 3	2 18	9 ♊ 2	14 8	24 13	8 52	20 56	20 12	23 38

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1896

Eclipse of Moon August 23rd in ♌ 0° 18'

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		N	N	N	N	S	N	N	S	N
1	8 42	17 51	17 19	19 17	18 28	13 29	16 13	16 32	17 37	21 40
2	46	17 35	16 57	18 44	22 25	30	9	43	37	40
3	50	17 19	16 35	18 9	25 29	31	5	53	37	40
4	54	17 3	16 13	17 33	27 23	31	1	17 3	37	40
5	58	16 47	15 50	16 56	27 53	32	15 57	14	37	40
6	9 2	16 30	15 27	16 17	26 51	33	53	24	37	40
7	9 6	16 14	15 3	15 37	24 13	13 34	15 49	17 33	17 38	21 41
8	9	15 56	14 39	14 57	20 5	35	45	43	38	41
9	13	39	14	14 15	14 44	36	41	53	38	41
10	17	21	13 49	13 39	8 29	37	37	18 2	38	41
11	21	4	24	12 51	1 44	38	32	11	38	41
12	25	14 45	12 58	12 7	5 S 6	39	28	20	38	41
13	29	27	32	11 24	11 38	40	24	29	38	41
14	9 33	14 8	12 6	10 40	17 29	13 41	15 20	18 38	17 38	21 41
15	37	13 50	11 39	9 56	22 17	42	16	46	39	41
16	41	31	12	9 11	25 44	43	12	55	39	41
17	45	11	10 44	8 27	27 36	44	8	19 3	39	41
18	49	12 52	17	7 42	27 48	45	4	11	39	41
19	53	32	9 49	6 58	26 23	47	14 59	19	40	41
20	57	12	21	6 13	23 35	48	55	27	40	41
21	10 1	11 52	8 52	5 29	19 39	13 49	14 51	19 34	17 41	21 41
22	5	11 32	8 24	4 45	14 55	50	47	42	41	41
23	9	11 12	7 55	4 1	9 38	52	43	49	42	42
24	13	10 51	7 26	3 17	4 5	53	39	56	42	42
25	16	10 30	6 57	2 34	1 N33	54	34	20 3	42	42
26	20	10 10	6 27	1 51	7 4	55	30	10	42	42
27	24	9 48	5 58	1 8	12 19	57	26	17	43	42
28	10 28	9 27	5 28	0 26	17 6	13 58	14 22	20 23	17 43	21 42
29	32	9 6	4 58	0 S 16	21 15	14 0	18	30	44	42
30	36	8 44	4 28	0 58	24 35	1	14	36	44	42
31	10 40	8 23	3 57	1 39	26 51	14 3	14 9	20 42	17 44	21 42

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1896

New Moon September 7th in ♍ 15° 19′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♍′	° ♍′	° ♎′	° ♊′	° ♓′	° ♍′	° ♌′	° ♈′	° ♍′	° ♒′	° ♒′	° ♒′
1	9 29	24 17	3 40	21 30	14 13	24 26	9 25	20 58	20 12	23 34
2	10 28	25 31	5 0	4 ♋ 17	17	39	9 57	21 0	13	31
3	11 26	26 45	6 19	17 28	22	52	10 29	2	14	28
4	12 24	27 59	7 35	1 ♌ 4	26	25 5	11 1	4	15	25
5	13 22	29 14	8 51	15 7	30	18	11 34	6	15	22
6	14 21	0♎28	10 3	29 33	35	32	12 5	8	16	18
7	15 19	1 42	11 17	14♍19	14 39	25 45	12 35	21 10	20 16	23 15
8	16 17	2 56	12 26	29 18	44	58	13 6	12	16	12
9	17 16	4 10	13 35	14♎21	48	26 11	13 36	14	16	9
10	18 14	5 25	14 41	29 19	53	23	14 6	16	17	6
11	19 12	6 40	15 46	14♏ 4	59	35	14 36	18	17	3
12	20 11	7 54	16 47	28 30	15 4	47	15 5	20	18	22 59
13	21 9	9 8	17 45	12 ♐ 34	9	27 0	15 33	22	18	56
14	22 8	10 22	18 41	26 15	15 14	27 12	16 2	21 24	20 18	22 53
15	23 6	11 36	19 34	9 ♑33	20	25	16 30	26	18	50
16	24 5	12 51	20 25	22 31	26	38	16 58	28	18	47
17	25 4	14 5	21 13	5 ♒12	31	50	17 26	31	18	44
18	26 2	15 19	21 55	17 39	36	28 2	17 54	33	19	40
19	27 1	16 33	22 34	29 55	41	14	18 21	36	19	37
20	27 59	17 47	23 12	12♓ 2	47	27	18 47	38	19	34
21	28 58	19 1	23 42	24 2	15 53	28 39	19 13	21 41	20 19	22 31
22	29 57	20 15	24 7	5 ♈ 57	59	51	19 38	44	19	27
23	0♎56	21 29	24 29	17 50	16 4	29 3	20 3	46	ʀ19	24
24	1 55	22 43	24 46	29 41	10	15	20 29	49	19	21
25	2 53	23 57	24 56	11 ♉ 32	16	27	20 54	52	19	18
26	3 52	25 11	24 59	23 27	22	38	21 18	54	19	15
27	4 51	26 25	24ʀ54	5 ♊ 28	28	49	21 41	57	19	12
28	5 50	27 39	24 43	17 39	16 34	0 ♍ 1	22 4	22 0	20 18	22 8
29	6 49	28 53	24 24	0 ♋ 3	40	13	22 27	3	18	5
30	7 48	0 ♍ 8	23 58	12 44	16 46	0 25	22 49	22 6	20 18	22 2

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1896

Full Moon September 21st in ♓ 28° 58′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♃	♑	♅	♆
		N	N	S	N	S	N	N	S	N
1	10 44	8 1	3 27	2 19	27 52	14 4	14 5	20 48	17 45	21 42
2	48	7 39	2 57	2 59	27 26	6	0	54	45	42
3	52	7 17	2 26	3 38	25 28	7	13 56	21 0	46	42
4	56	6 55	1 55	4 16	21 59	9	52	5	46	42
5	11 0	6 32	1 25	4 54	17 8	10	48	11	47	42
6	4	6 10	0 54	5 31	11 12	12	44	16	48	42
7	11 8	5 47	0 23	6 7	4 32	14 13	13 40	21 21	17 49	21 42
8	12	5 25	0 s 8	6 43	2 s28	15	35	26	49	42
9	16	5 2	0 38	7 17	9 21	16	31	31	50	42
10	20	4 39	1 9	7 50	15 40	18	27	36	50	42
11	24	4 16	1 40	8 23	20 59	20	23	41	51	42
12	27	3 53	2 11	8 54	24 55	22	18	45	51	42
13	31	3 30	2 42	9 24	27 15	23	14	50	52	42
14	11 35	3 7	3 13	9 52	27 51	14 25	13 10	21 54	17 53	21 42
15	39	2 44	3 43	10 20	26 47	26	6	58	54	42
16	43	2 21	4 14	10 45	24 18	28	2	22 2	54	42
17	47	1 58	4 45	11 10	20 39	30	12 58	6	55	42
18	51	1 34	5 15	11 32	16 8	32	53	10	55	42
19	55	1 11	5 46	11 52	11 2	33	49	14	56	41
20	59	0 48	6 16	12 11	5 35	35	45	18	56	41
21	12 3	0 24	6 46	12 27	0 0	14 37	12 41	22 21	17 57	21 41
22	7	0 1	7 16	12 41	5 N32	39	37	25	57	41
23	11	0 s22	7 46	12 52	10 51	40	33	28	58	41
24	15	0 46	8 16	13 1	15 46	42	29	32	59	41
25	19	1 9	8 45	13 6	20 5	44	25	35	18 0	41
26	23	1 33	9 14	13 8	23 38	46	21	38	0	41
27	27	1 56	9 44	13 6	26 12	48	17	41	1	41
28	12 31	2 19	10 12	13 1	27 34	14 50	12 13	22 44	18 1	21 41
29	34	2 43	10 41	12 52	27 36	51	9	47	3	41
30	12 38	3 6	11 10	12 38	26 12	14 53	12 5	22 50	18 4	21 41

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1896

New Moon October 6th in ♎ 13° 43'

Longitude of the Planets

D	☉	☿	☿	☽	♄	♅	♂	♃	♆	♇
	° ♎ ′	° ♏ ′	° ♎ ′	° ♋ ′	° ♏ ′	° ♏′	° ♊ ′	° ♏ ′	° ♊ ′	° ♒
1	8 47	1 22	23R25	25 48	16 52	0 37	23 10	22 9	20R18	21 59
2	9 46	2 36	22 43	9 ♌17	58	49	32	11	17	56
3	10 45	3 50	21 54	23 14	17 4	1 0	53	14	17	53
4	11 45	5 5	20 59	7 ♍38	10	11	24 13	17	17	49
5	12 44	6 19	19 55	22 28	16	23	32	20	16	46
6	13 43	7 33	18 50	7 ♎36	22	35	52	24	16	43
7	14 42	8 47	17 40	22 53	17 28	1 46	25 11	22 27	20 16	21 40
8	15 42	10 1	16 30	8 ♏ 9	35	57	29	30	15	37
9	16 41	11 15	15 18	23 12	41	2 8	47	33	15	34
10	17 41	12 29	14 9	7 ♐54	47	18	26 5	37	14	30
11	18 40	13 43	13 4	22 9	54	29	22	41	14	27
12	19 39	14 57	12 6	5 ♑56	18 1	40	37	44	13	24
13	20 39	16 11	11 15	19 15	8	51	51	48	13	21
14	21 38	17 25	10 36	2 ♒ 9	18 14	3 2	27 5	22 51	20 12	21 18
15	22 38	18 39	10 5	14 43	21	12	19	54	11	15
16	23 37	19 53	9 44	27 0	28	22	32	58	10	11
17	24 37	21 7	9 35	9 ♓ 6	35	32	45	23 1	10	8
18	25 37	22 21	9 D36	21 3	42	42	57	5	9	5
19	26 36	23 35	9 49	2 ♈57	49	52	28 8	8	8	2
20	27 36	24 49	10 13	14 48	56	4 2	18	11	7	20 58
21	28 36	26 3	10 45	26 39	19 3	4 12	28 28	23 15	20 6	20 55
22	29 36	27 17	11 27	8 ♉32	10	22	37	18	5	52
23	0♏35	28 31	12 18	20 28	17	32	45	21	4	49
24	1 35	29 45	13 15	2 ♊29	24	42	53	24	3	46
25	2 35	0 ♐59	14 19	14 35	31	52	29 0	28	2	43
26	3 35	2 13	15 29	26 50	38	5 2	6	31	1	39
27	4 35	3 26	16 41	9 ♋15	45	12	11	34	0	36
28	5 35	4 39	18 0	21 55	19 52	5 21	29 16	23 38	19 59	20 33
29	6 35	5 53	19 22	4 ♌53	59	30	19	41	58	30
30	7 35	7 6	20 48	18 14	20 6	39	22	44	57	27
31	8 35	8 20	22 16	1 ♍59	20 13	5 48	29 24	23 48	19 56	20 24

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1896

Full Moon October 21st in ♈ 28° 36′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	S	S	N	S	N	N	S	N
1	12 42	3 29	11 38	12 20	23 22	14 55	12 1	22 53	18 5	21 41
2	46	3 53	12 6	11 57	19 11	57	11 57	56	5	41
3	50	4 16	12 33	11 30	13 49	59	11 53	59	6	41
4	54	4 39	13 1	10 58	7 33	15 1	49	23 1	7	41
5	58	5 2	13 28	10 22	0 43	3	45	4	8	41
6	13 2	5 25	13 55	9 43	6 s17	5	41	7	8	41
7	13 6	5 48	14 21	9 1	12 59	15 6	11 37	23 9	18 9	21 41
8	10	6 11	14 47	8 17	18 53	8	33	12	10	41
9	14	6 34	15 13	7 31	23 31	10	30	14	11	40
10	18	6 57	15 38	6 46	26 30	12	26	17	12	40
11	22	7 19	16 3	6 2	27 40	14	22	19	13	40
12	26	7 42	16 28	5 20	27 3	16	18	22	14	40
13	30	8 4	16 52	4 42	24 52	18	15	24	15	40
14	13 34	8 27	17 16	4 8	21 27	15 20	11 11	23 27	18 15	21 40
15	38	8 49	17 39	3 39	17 7	22	7	29	16	40
16	42	9 11	18 2	3 15	12 10	24	3	32	17	40
17	45	9 33	18 24	2 57	6 51	26	0	34	18	40
18	49	9 55	18 46	2 45	1 20	28	10 56	37	18	40
19	53	10 16	19 8	2 38	4 N10	30	53	39	19	39
20	57	10 38	19 29	2 37	9 31	32	49	42	20	39
21	14 1	10 59	19 49	2 42	14 31	15 33	10 46	23 44	18 21	21 39
22	5	11 20	20 9	2 51	18 59	35	42	47	22	39
23	9	11 41	20 28	3 5	22 43	37	39	49	23	39
24	13	12 2	20 47	3 23	25 30	39	36	52	24	39
25	17	12 23	21 5	3 44	27 10	41	33	54	25	39
26	21	12 43	21 23	4 9	27 31	43	29	57	26	39
27	25	13 4	21 40	4 36	26 30	45	26	59	27	39
28	14 29	13 24	21 57	5 6	24 7	15 47	10 23	24 2	18 28	21 39
29	33	13 43	22 13	5 38	20 26	49	20	5	29	38
30	37	14 3	22 28	6 11	15 38	51	16	7	29	38
31	14 41	14 22	22 43	6 46	9 54	15 55	10 13	24 10	18 30	21 38

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1896

New Moon November 5th in ♏ 13° 36′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♏′	° ♐′	° ♏′	° ♒′	° ♍′	° ♑′	° ♍′	° ♊′	° ♏′	° ♓′
1	9 35	9 34	23 47	16 10	20 20	5 57	29R25	23 51	19R55	20 21
2	10 35	10 47	25 19	0 ♒48	27	6 6	25	55	54	17
3	11 35	12 1	26 51	15 48	34	15	24	59	52	14
4	12 36	13 14	28 25	1 ♏ 1	41	23	23	24 3	50	11
5	13 36	14 28	0 ♏ 0	16 18	48	31	20	7	49	8
6	14 36	15 42	1 36	1 ♐28	55	39	17	11	48	5
7	15 36	16 55	3 10	16 19	21 2	6 48	29 13	24 15	19 47	20 2
8	16 37	18 9	4 46	0 ♑45	9	56	8	19	46	19 58
9	17 37	19 23	6 23	14 41	16	7 4	2	22	44	55
10	18 37	20 36	8 1	28 7	23	12	28 55	26	43	52
11	19 38	21 49	9 37	11♒ 5	30	20	48	30	41	49
12	20 38	23 3	11 14	23 39	37	27	39	34	40	45
13	21 39	24 16	12 49	5 ♓55	44	34	30	37	39	42
14	22 39	25 30	14 26	17 58	21 52	7 41	28 20	24 41	19 38	19 39
15	23 40	26 44	16 2	29 52	59	48	9	45	36	36
16	24 40	27 57	17 38	11 ♈43	22 7	55	27 57	49	35	33
17	25 41	29 10	19 14	23 33	14	8 2	44	52	34	30
18	26 41	0♑24	20 52	5 ♉26	22	9	30	56	32	26
19	27 42	1 38	22 27	17 23	29	15	16	25 0	31	23
20	28 42	2 52	24 1	29 27	36	21	1	4	29	20
21	29 43	4 5	25 38	11♊37	22 43	8 27	26 45	25 7	19 27	19 17
22	0 ♐44	5 19	27 15	23 55	51	33	28	11	26	14
23	1 44	6 32	28 49	6 ♋21	58	39	10	14	24	11
24	2 45	7 45	0 ♐24	18 57	23 5	45	25 52	18	22	7
25	3 46	8 58	1 58	1 ♌45	12	51	33	21	21	4
26	4 46	10 12	3 32	14 47	18	56	13	25	19	1
27	5 47	11 25	5 6	28 6	25	9 1	24 53	29	17	18 58
28	6 48	12 38	6 40	11♍43	23 32	9 6	24 33	25 33	19 15	55
29	7 49	13 51	8 15	25 42	39	11	13	37	13	52
30	8 50	15 4	9 49	10♎ 2	23 46	9 16	23 52	25 41	19 11	18 48

Fellowship Press, Oceanside, Calif.

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1896

Full Moon November 20th in ♉ 28° 42′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♃	♂	♅	♆
		S	S	S	N	S	N	N	S	N
1	14 45	14 42	22 57	7 21	3 30	15 55	10 10	24 13	18 31	21 38
2	49	15 1	23 10	7 58	3 s16	57	7	15	32	38
3	52	15 19	23	8 35	10 0	59	4	18	33	38
4	56	15 38	35	9 13	16 15	16 1	1	21	34	38
5	15 0	15 56	46	9 51	21 30	3	9 58	24	35	37
6	4	16 14	57	10 29	25 16	5	55	27	36	37
7	15 8	16 32	24 7	11 7	27 14	16 6	9 53	24 29	18 37	21 37
8	12	16 49	16	11 45	27 16	8	50	32	38	37
9	16	17 6	25	12 22	25 32	10	47	35	39	37
10	20	17 23	33	13 0	22 24	12	44	38	40	37
11	24	17 39	40	13 36	18 13	14	42	41	41	37
12	28	17 55	46	14 13	13 20	16	39	44	42	37
13	32	18 11	52	14 49	8 3	18	37	47	43	36
14	15 36	18 27	24 57	15 24	2 35	16 20	9 34	24 50	18 43	21 36
15	40	18 42	25 1	15 58	2 N55	22	32	53	44	36
16	44	18 57	5	16 32	8 16	24	29	56	45	36
17	48	19 12	7	17 5	13 20	25	27	58	46	36
18	52	19 26	9	17 37	17 54	27	25	25 1	47	36
19	56	19 40	11	18 9	21 49	29	23	4	48	36
20	16 0	19 53	11	18 39	24 50	31	21	7	49	36
21	16 3	20 6	25 11	19 9	26 45	16 32	9 19	25 9	18 50	21 35
22	7	20 19	10	19 38	27 24	34	17	12	51	35
23	11	20 31	8	20 6	26 39	36	15	14	52	35
24	15	20 43	6	20 33	24 33	38	13	17	53	35
25	19	20 55	2	20 59	21 10	40	11	19	54	35
26	23	21 6	24 58	21 [illegible]3	16 41	42	9	21	54	35
27	27	21 17	54	21 47	11 19	43	7	24	55	35
28	16 31	21 28	24 48	22 10	5 18	16 45	9 5	25 26	18 55	21 35
29	35	21 38	42	22 32	1 s 8	47	4	27	56	34
30	16 39	21 47	24 35	22 52	7 38	16 48	9 3	25 29	18 57	21 34

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December 1896

New Moon December 4th in ♐ 12° 53′

Longitude of the Planets

D	☉	☿	☿	☽	♄	♅	♂	♆	♇	☊
	° ♐′	° ♑′	° ♐′	° ♒′	° ♏′	° ♏′	° ♊′	° ♏′	° ♊′	° ♒′
1	9 51	16 17	11 22	24 41	23 52	9 19	23R31	25 44	19R10	18 45
2	10 52	17 29	12 57	9 ♏34	59	23	23 8	48	8	42
3	11 52	18 42	14 31	24 34	24 6	27	22 45	51	6	39
4	12 53	19 55	16 5	9 ♐31	13	31	22 22	55	5	36
5	13 54	21 8	17 38	24 16	20	35	22 0	59	3	33
6	14 55	22 20	19 13	8 ♑41	27	39	21 36	26 3	2	29
7	15 56	23 32	20 47	22 39	24 34	9 43	21 12	26 6	19 0	18 26
8	16 57	24 45	22 21	6 ♒10	40	46	20 49	10	18 58	23
9	17 58	25 58	23 56	19 14	47	50	20 26	13	56	20
10	18 59	27 11	25 30	1 ♓54	54	52	20 2	17	55	17
11	20 0	28 24	27 5	14 14	25 1	55	19 40	20	53	13
12	21 1	29 37	28 39	26 19	8	57	19 17	24	52	10
13	22 2	0♒50	0♑14	8 ♈14	15	59	18 54	28	50	7
14	23 3	2 32	1 49	20 5	25 22	10 1	18 31	26 31	18 48	18 4
15	24 5	3 16	3 23	1 ♉56	29	3	18 7	34	47	1
16	25 6	4 29	4 58	13 51	35	5	17 45	38	45	17 57
17	26 7	5 41	6 33	25 53	41	7	17 23	41	43	54
18	27 8	6 53	8 8	8 ♊ 5	48	8	17 2	45	41	51
19	28 9	8 5	9 43	20 27	54	10	16 41	48	40	48
20	29 10	9 16	11 17	3 ♋ 0	26 1	11	16 21	52	38	45
21	0♑11	10 28	12 51	15 44	26 7	10 12	16 2	26 55	18 37	17 42
22	1 12	11 39	14 27	28 40	13	12	15 42	58	35	38
23	2 13	12 51	16 0	11♌46	20	13	15 22	27 1	34	35
24	3 14	14 3	17 33	25 5	27	13	15 4	4	32	32
25	4 15	15 14	19 6	8 ♍35	33	13	14 47	8	30	29
26	5 17	16 26	20 38	22 18	40	13	14 31	11	28	26
27	6 18	17 37	22 9	6 ♎13	46	R13	14 15	14	26	23
28	7 19	18 48	23 39	20 22	26 52	10 13	13 59	27 17	18 25	17 19
29	8 20	19 59	25 9	4 ♍42	58	12	13 44	20	23	16
30	9 21	21 10	26 38	19 10	27 4	11	13 30	23	22	13
31	10 22	22 21	28 4	3 ♐41	27 10	10 10	13 17	27 26	18 21	17 10

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1896

Full Moon December 20th in ♊ 29° 10′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	S	S	S	S	N	N	S	N
1	16 43	21 57	24 27	23 11	13 53	16 50	9 1	25 31	18 58	21 34
2	47	22 5	19	30	19 25	52	8 59	32	59	34
3	51	14	10	47	23 46	53	8 58	34	19 0	34
4	55	22	0	24 2	26 31	55	57	35	1	34
5	59	29	23 49	17	27 22	57	56	36	2	34
6	17 3	36	38	30	26 19	59	55	37	3	34
7	17 7	22 43	23 26	24 42	23 37	17 0	8 54	25 38	19 4	21 33
8	10	49	14	53	19 40	2	53	39	4	33
9	14	55	1	25 2	14 53	3	52	39	5	33
10	18	23 0	22 47	10	9 35	5	51	40	6	33
11	22	5	32	17	4 3	6	50	40	7	33
12	26	9	17	22	1 N30	8	50	40	7	33
13	30	13	1	25	6 56	9	49	40	8	33
14	17 34	23 16	21 45	25 28	12 4	17 11	8 49	25 40	19 9	21 33
15	38	19	28	29	16 46	12	48	39	10	32
16	42	22	10	28	20 52	14	48	39	11	32
17	46	24	20 52	26	24 7	15	47	38	12	32
18	50	25	34	22	26 21	17	47	38	12	32
19	54	26	14	17	27 20	18	46	37	13	32
20	58	27	19 55	10	26 55	20	46	36	14	32
21	18 2	23 27	19 34	25 2	25 6	17 21	8 46	25 35	19 15	21 31
22	6	27	13	24 52	21 56	23	46	34	15	31
23	10	26	18 52	41	17 37	24	46	33	16	31
24	14	25	30	28	12 23	26	46	32	16	31
25	17	23	8	14	6 39	27	47	31	17	31
26	21	21	17 45	23 58	0 14	28	47	30	18	31
27	25	18	22	40	6 s 8	29	47	29	19	31
28	18 29	23 15	16 58	23 22	12 17	17 31	8 47	25 28	19 19	21 31
29	33	12	34	1	17 52	32	48	26	20	31
30	37	7	10	22 40	22 29	33	48	25	21	31
31	18 41	23 3	15 45	22 17	25 44	17 34	8 49	25 24	19 22	21 30

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	35	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	66 98	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6582	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5692	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3295	16

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	82
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	19	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	56	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06
59	68	46	46	65	02	53	18	95	83	81	88	03

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1897

New Moon January 3rd in ♑ 13° 20′

Longitude of the Planets

D	☉	☿	♂	♃	♄	♅	♆	♇	♇	☊
	° ♑′	° ♒′	° ♑′	° ♐′	° ♏′	° ♏′	° ♊′	° ♏′	° ♊′	° ♒′
1	11 24	23 32	29 28	18 11	27 15	10R 9	13R 4	27 28	18R19	17 7
2	12 25	24 42	0♒50	2 ♑32	21	8	12 52	31	18	3
3	13 26	25 53	2 10	16 39	27	6	41	34	16	0
4	14 27	27 4	3 25	0 ♒27	31	4	32	37	14	16 57
5	15 28	28 14	4 36	13 53	38	1	23	40	13	54
6	16 30	29 24	5 41	26 57	44	9 59	15	42	12	51
7	17 31	0♓34	6 40	9 ♓39	27 48	9 57	12 7	27 45	18 10	16 48
8	18 32	1 45	7 33	22 2	54	54	0	47	9	44
9	19 33	2 55	8 18	4 ♈11	28 0	51	11 55	50	7	41
10	20 34	4 5	8 55	16 9	5	49	50	53	6	38
11	21 35	5 15	9 24	28 2	10	46	45	55	4	35
12	22 36	6 25	9 42	9 ♉54	15	43	41	58	2	32
13	23 38	7 35	9 48	21 50	20	40	39	28 0	1	29
14	24 39	8 44	9 R45	3 ♊55	28 25	9 35	11 37	28 3	17 59	16 25
15	25 40	9 54	9 29	16 11	30	31	36	5	58	22
16	26 41	11 2	9 2	28 42	35	27	36	7	57	19
17	27 42	12 11	8 22	11♋28	39	23	D37	10	56	16
18	28 43	13 20	7 34	24 31	43	18	38	12	55	13
19	29 44	14 28	6 34	7 ♌49	47	14	40	14	54	10
20	0♒45	15 36	5 28	21 22	51	10	43	17	53	6
21	1 46	16 44	4 15	5 ♍6	28 56	9 5	11 46	28 19	17 52	16 3
22	2 47	17 52	3 0	19 1	29 0	0	50	21	51	0
23	3 48	18 59	1 44	3 ♎4	5	8 55	55	23	50	15 57
24	4 49	20 7	0 28	17 11	9	50	12 1	25	49	53
25	5 50	21 14	29♑15	1 ♏22	13	44	7	27	48	50
26	6 51	22 21	28 9	15 34	18	38	14	29	47	47
27	7 52	23 27	27 8	29 44	22	32	21	31	46	44
28	8 53	24 34	26 14	13 ♐50	29 26	8 26	12 29	28 32	17 45	15 41
29	9 54	25 41	25 30	27 50	30	20	38	34	44	38
30	10 55	26 47	24 54	11♑41	34	14	47	36	43	34
31	11 56	27 53	24 26	25 20	29 38	8 7	12 57	28 38	17 42	15 31

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1897

Full Moon January 18th in ♋ 28° 43′

Declination of the Planets

D	S T	☉	☿	♂	♃	♄	♅	♆	♇	♇
		S	S	S	S	S	N	N	S	N
1	18 45	22 58	15 19	21 54	27 17	17 36	8 50	25 23	19 22	21 30
2	49	52	14 54	29	26 59	37	51	21	23	30
3	53	47	14 28	3	24 55	38	52	20	24	30
4	57	40	14 1	20 37	21 23	39	53	19	24	30
5	19 1	33	13 34	10	16 48	40	54	18	25	30
6	5	26	13 7	19 43	11 33	41	55	17	25	30
7	19 9	22 18	12 40	19 16	5 58	17 43	8 56	25 16	19 26	21 30
8	13	10	12 12	18 50	0 17	44	57	15	26	30
9	17	2	11 44	24	5 N17	45	59	14	27	30
10	21	21 53	11 16	17 59	10 34	46	9 0	13	28	30
11	25	43	10 48	36	15 27	47	1	12	29	30
12	28	33	10 19	15	19 44	48	2	12	29	30
13	32	23	9 50	16 55	23 10	49	4	11	30	29
14	19 36	21 12	9 21	16 39	25 50	17 50	9 6	25 11	19 30	21 29
15	40	1	8 52	25	27 13	51	8	10	31	29
16	44	20 50	8 22	14	27 16	52	9	10	31	29
17	48	38	7 53	7	25 53	53	11	9	32	29
18	52	26	7 23	3	23 4	53	13	9	32	29
19	56	13	6 53	2	18 59	54	15	9	33	29
20	20 0	0	6 23	4	13 51	55	17	9	33	29
21	20 4	19 47	5 52	16 9	7 58	17 56	9 19	25 9	19 34	21 29
22	8	33	5 22	16	1 39	57	21	9	34	29
23	12	19	4 52	26	4 S49	58	24	9	35	29
24	16	4	4 21	37	11 3	58	26	9	35	29
25	20	18 49	3 50	49	16 45	59	28	9	36	28
26	24	34	3 20	17 2	21 33	18 0	30	10	36	28
27	28	19	2 49	16	25 6	1	33	10	36	28
28	20 32	18 3	2 18	17 29	27 5	18 1	9 35	25 10	19 36	21 28
29	35	17 47	1 47	43	27 20	2	38	11	37	28
30	39	30	1 16	57	25 51	2	40	11	37	28
31	20 43	17 13	0 46	18 10	22 51	18 3	9 43	25 12	19 38	21 28

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1897

Eclipse of Sun February 1st in ♒ 12° 57′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♆	♇	☊
	° ♒′	° ♑′	° ♈′	° ♒′	° ♏′	° ♏′	° ♊′	° ♏′	° ♊′	° ♒′
1	12 57	28 59	24R 8	8 45	29 42	8 R 1	13 7	28 39	17R41	15 28
2	13 57	0 ♈ 4	23 56	21 55	45	7 54	18	41	41	25
3	14 58	1 8	23 53	4 ♑48	46	48	30	42	40	22
4	15 59	2 13	23D57	17 25	51	41	42	44	39	19
5	17 0	3 18	24 8	29 47	54	34	56	46	39	16
6	18 1	4 23	24 27	11 ♈56	58	26	14 9	48	38	12
7	19 1	5 28	24 50	23 55	0 ♐ 1	7 19	14 23	28 49	17 38	15 9
8	20 2	6 31	25 20	5 ♉49	4	11	38	50	37	6
9	21 3	7 35	25 54	17 41	7	4	53	51	36	3
10	22 4	8 37	26 32	29 37	10	6 57	15 8	53	35	0
11	23 4	9 39	27 16	11♊41	13	50	24	54	35	14 57
12	24 5	10 42	28 3	23 57	15	42	40	55	34	53
13	25 5	11 43	28 54	6 ♋29	18	35	56	56	34	50
14	26 6	12 45	29 48	19 22	0 20	6 27	16 13	28 57	17 33	14 47
15	27 7	13 46	0♒45	2 ♌36	23	20	31	57	33	44
16	28 7	14 47	1 46	16 11	24	12	49	58	33	40
17	29 8	15 46	2 49	0 ♍ 7	26	4	17 8	59	32	37
18	0 ♓ 8	16 46	3 55	14 20	28	5 56	27	59	32	34
19	1 8	17 45	5 2	28 45	29	48	46	29 0	32	31
20	2 9	18 45	6 12	13♎17	31	40	18 6	0	32	28
21	3 9	19 43	7 22	27 49	0 33	5 32	18 26	29 1	17 32	14 25
22	4 10	20 41	8 36	12♍16	35	24	46	1	31	21
23	5 10	21 38	9 50	26 34	36	16	19 7	1	31	18
24	6 10	22 33	11 7	10 ♐40	38	8	28	2	31	15
25	7 11	23 30	12 25	24 33	39	0	49	2	31	12
26	8 11	24 25	13 45	8 ♑12	40	4 52	20 10	2	31	9
27	9 11	25 20	15 6	21 38	41	44	32	2	31	6
28	10 11	26 14	16 27	4 ♒50	0 42	4 36	20 55	29 2	17 31	14 2

Fellowship Press, Oceanside, Calif.

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Ephemeris of the Planets' Places
Calculated for Mean Noon at Greenwich
February, 1897
Full Moon February 17th in ♌ 29° 8′
Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		S	S	S	S	S	N	N	S	N
1	20 47	16 56	0 15	18 22	18 40	18 4	9 45	25 13	19 38	21 28
2	51	39	0 N16	34	13 38	4	48	13	38	28
3	55	21	0 47	45	8 6	5	51	14	39	28
4	59	3	1 18	56	2 23	5	53	15	39	28
5	21 3	15 45	1 48	19 5	3 N19	6	56	16	39	28
6	7	26	2 19	13	8 47	6	59	17	39	28
7	21 11	15 8	2 49	19 21	13 51	18 7	10 2	25 18	19 40	21 28
8	15	14 49	3 20	27	18 23	7	5	19	40	28
9	19	29	3 50	32	22 11	8	8	20	41	28
10	23	10	4 20	36	25 5	8	10	21	41	28
11	27	13 50	4 50	39	26 53	9	13	22	41	28
12	31	30	5 20	41	27 26	9	16	23	41	28
13	35	10	5 50	42	26 36	10	19	24	42	28
14	21 39	12 49	6 20	19 41	24 21	18 10	10 22	25 25	19 42	21 28
15	43	29	6 49	39	20 43	10	25	26	42	28
16	46	8	7 19	36	15 55	10	28	27	42	28
17	50	11 47	7 48	31	10 10	11	31	28	43	28
18	54	26	8 17	26	3 48	11	34	29	43	28
19	58	4	8 45	19	2 s50	11	37	30	43	28
20	22 2	10 43	9 14	10	9 21	11	40	31	43	28
21	22 6	21	9 42	19 1	15 23	18 12	10 43	25 32	19 43	21 28
22	10	9 59	10 10	18 50	20 31	12	46	33	43	28
23	14	37	10 37	38	24 24	12	49	34	43	29
24	18	15	11 5	24	26 45	12	52	35	43	29
25	22	8 53	11 32	10	27 24	12	55	36	43	29
26	26	30	11 59	17 54	26 21	12	58	37	44	29
27	30	8	12 25	36	23 47	12	11 1	37	44	29
28	22 34	7 45	12 52	17 18	19 59	18 12	11 4	25 38	19 44	21 29

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Ephemeris of the Planets' Places
Calculated for Mean Noon at Greenwich
March, 1897
New Moon March 3rd in ♓ 13° 12′
Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♓′	° ♈′	° ♒′	° ♒′	° ♑′	° ♌′	° ♊′	° ♏′	° ♊′	° ♒′
1	11 12	27 6	17 49	17 50	0 43	4 R29	21 18	29R 3	17D31	13 59
2	12 12	27 59	19 14	0 ♓38	44	21	21 41	3	31	56
3	13 12	28 52	20 40	13 14	44	14	22 4	3	31	53
4	14 12	29 43	22 8	25 39	45	6	22 28	3	32	50
5	15 12	0 ♉34	23 38	7 ♈53	46	3 58	22 52	3	32	47
6	16 12	1 25	25 8	19 58	46	51	23 16	2	32	43
7	17 12	2 14	26 39	1 ♉56	0 46	3 43	23 40	29 2	17 33	13 40
8	18 12	3 2	28 12	13 49	46	36	24 5	2	33	37
9	19 12	3 49	29 45	25 41	46	28	24 29	2	33	34
10	20 12	4 36	1 ♓20	7 ♊35	46	21	24 54	1	34	31
11	21 12	5 20	2 56	19 36	46	14	25 19	1	34	28
12	22 12	6 5	4 33	1 ♋48	46	7	25 45	1	35	24
13	23 11	6 48	6 12	14 18	R46	0	26 12	0	35	21
14	24 11	7 31	7 52	27 8	0 45	2 53	26 38	29 0	17 36	13 18
15	25 11	8 12	9 33	10♌23	45	46	27 5	0	37	15
16	26 10	8 52	11 16	24 5	44	39	27 31	28 59	37	11
17	27 10	9 30	12 58	8 ♍13	44	32	27 58	59	28	8
18	28 10	10 8	14 42	22 45	43	26	28 25	58	39	5
19	29 9	10 44	16 29	7 ♎34	42	20	28 52	57	39	2
20	0 ♈ 9	11 20	18 16	22 33	41	14	29 19	56	40	12 59
21	1 8	11 54	20 4	7 ♍33	0 40	2 7	29 46	28 55	17 41	12 56
22	2 8	12 56	21 54	22 23	39	1	0♋14	54	42	52
23	3 7	12 57	23 45	6 ♑58	38	1 55	0 42	53	42	49
24	4 7	13 26	25 37	21 13	37	49	1 10	52	43	46
25	5 6	13 54	27 31	5 ♈7	35	43	1 38	51	44	43
26	6 5	14 20	29 26	18 38	33	38	2 6	50	45	40
27	7 5	14 44	1 ♈22	1 ♒50	31	33	2 34	49	46	37
28	8 4	15 6	3 20	14 45	0 29	1 29	3 3	28 48	17 47	12 33
29	9 3	15 26	5 18	27 26	28	24	3 33	46	48	30
30	10 2	15 45	7 18	9 ♓55	26	19	4 2	45	49	27
31	11 2	16 1	9 18	22 15	0 24	1 14	4 31	28 43	17 50	12 24

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EPHEMERIS OF THE PLANETS' PLACES
Calculated for Mean Noon at Greenwich
March, 1897
Full Moon March 18th in ♍ 28° 10′
Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♅	♁	♇	♆
		S	N	S	S	S	N	N	S	N
1	22 38	7 22	13 17	16 58	15 16	18 12	11 6	25 39	19 44	21 29
2	42	6 59	43	16 36	9 57	12	9	40	44	29
3	46	6 36	14 8	16 14	4 19	12	12	40	44	29
4	50	6 13	33	15 50	1 N 23	12	15	41	44	29
5	53	5 50	57	15 25	6 56	12	18	42	44	29
6	57	5 27	15 22	14 59	12 10	12	20	42	44	29
7	23 1	5 3	15 45	14 31	16 54	18 12	11 23	25 43	19 44	21 29
8	5	4 40	16 9	14 2	20 56	12	26	43	44	29
9	9	4 16	31	13 32	24 8	12	29	43	43	29
10	13	3 53	54	13 0	26 18	12	31	44	43	29
11	17	3 29	17 16	12 28	27 17	11	34	44	43	29
12	21	3 6	37	11 54	26 58	11	36	44	43	29
13	25	2 42	58	11 18	25 18	11	39	44	43	30
14	23 29	2 18	18 19	10 42	22 17	18 11	11 41	25 44	19 43	21 30
15	33	1 55	39	10 4	18 1	10	44	44	43	30
16	37	1 31	58	9 25	12 42	10	46	44	43	30
17	41	1 7	19 17	8 45	6 35	10	49	43	42	30
18	45	0 44	36	8 4	0 S 3	10	51	43	42	30
19	49	0 20	54	7 21	6 47	9	53	42	42	30
20	53	0 N 4	20 11	6 38	13 12	9	55	42	42	30
21	23 57	0 27	20 27	5 53	18 51	18 8	11 58	25 41	19 42	21 31
22	0 0	0 51	44	5 7	23 17	8	12 0	41	42	31
23	4	1 15	59	4 20	26 9	7	2	40	41	31
24	8	1 38	21 14	3 31	27 15	7	4	39	41	31
25	12	2 2	28	2 42	26 35	7	6	38	41	31
26	16	2 25	41	1 52	24 20	7	8	37	41	31
27	20	2 49	54	1 1	20 49	6	10	35	41	31
28	0 24	3 12	22 6	0 8	16 21	18 6	12 11	25 34	19 41	21 31
29	28	3 36	17	0 N 45	11 15	4	13	33	40	32
30	32	3 59	27	1 39	5 47	4	14	31	40	32
31	0 36	4 22	22 37	2 33	0 11	18 3	12 16	25 29	19 40	21 32

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1897

New Moon April 2nd in ♈ 13° 0′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♃	♆	♇
	° ♈′	° ♉′	° ♈′	° ♈′	° ♐′	° ♍′	° ♋′	° ♍′	° ♊′	° ♒′
1	12 1	16 16	11 21	4 26	0 R22	1 R 9	5 1	28R42	17 51	12 21
2	13 0	16 29	13 24	16 30	19	4	5 30	40	52	17
3	13 59	16 39	15 27	28 29	16	0	6 0	39	53	14
4	14 58	16 47	17 31	10 ♉ 24	14	0 56	6 30	37	54	11
5	15 57	16 53	19 36	22 16	12	52	7 0	36	55	8
6	16 56	16 56	21 41	4 ♊ 7	10	48	7 30	34	56	5
7	17 55	16 58	23 46	16 0	0 7	0 45	8 0	28 33	17 57	12 2
8	18 54	16R56	25 51	28 0	4	41	8 30	31	58	11 58
9	19 53	16 53	27 56	10♋10	1	38	9 0	29	59	55
10	20 52	16 47	0 ♉ 1	22 35	29♏58	35	9 31	27	18 1	52
11	21 51	16 38	2 3	5 ♌20	55	33	10 2	26	3	49
12	22 49	16 27	4 4	18 29	52	30	10 33	24	4	46
13	23 48	16 13	6 3	2 ♍ 7	49	28	11 3	22	6	43
14	24 47	15 57	8 0	16 14	29 46	0 26	11 34	28 20	18 7	11 39
15	25 45	15 39	9 54	0 ♎50	43	24	12 5	18	9	36
16	26 44	15 18	11 45	15 49	39	22	12 36	16	10	33
17	27 43	14 55	13 34	1 ♏ 3	36	20	13 8	14	12	30
18	28 41	14 30	15 18	16 21	32	18	13 39	12	14	27
19	29 40	14 2	17 1	1 ♐31	29	16	14 10	10	16	24
20	0 ♉ 38	13 33	18 37	16 25	26	15	14 43	8	17	20
21	1 37	13 2	20 10	0 ♑54	29 22	0 14	15 15	28 6	18 19	11 17
22	2 35	12 28	21 40	14 57	18	14	15 46	3	21	14
23	3 34	11 55	23 6	28 32	14	13	16 17	1	23	11
24	4 32	11 20	24 26	11♒43	10	13	16 49	27 59	24	8
25	5 30	10 44	25 40	24 32	7	12	17 21	57	26	5
26	6 29	10 7	26 52	7 ♓ 3	3	12	17 53	55	28	1
27	7 27	9 28	27 59	19 21	28 59	D12	18 24	52	30	10 58
28	8 25	8 52	29 1	1 ♈30	28 55	0 13	18 56	27 50	18 31	10 55
29	9 24	8 13	29 57	13 31	51	13	19 28	48	33	52
30	10 22	7 35	0♊48	25 28	28 47	0 14	20 0	27 45	18 35	10 49

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1897

Full Moon April 17th in ♎ 27° 43′

Declination of the Planets

D	S	T	☉	♀	☿	☽	♄	♃	♂	♅	♆
			N	N	N	N	S	N	N	S	N
1	0	40	4 45	22 45	3 29	5 22	18 3	12 18	25 28	19 39	21 22
2		44	5 8	53	4 24	10 39	3	19	26	39	32
3		48	5 31	23 0	5 21	15 30	2	21	24	38	32
4		52	5 54	6	6 17	19 44	1	22	22	38	32
5		56	6 17	11	7 14	23 9	0	23	19	38	33
6	1	0	6 40	14	8 10	25 36	0	24	17	38	33
7	1	4	7 2	23 17	9 6	26 55	17 59	12 25	25 15	19 37	21 33
8		8	7 25	19	10 2	27 0	59	26	12	37	33
9		11	7 47	18	10 57	25 47	58	28	9	36	33
10		15	8 9	18	11 52	23 16	57	28	7	36	33
11		19	8 31	17	12 45	19 34	56	29	4	35	34
12		23	8 53	13	13 37	14 48	56	30	0	35	34
13		27	9 15	9	14 27	9 9	55	31	24 57	35	34
14	1	31	9 36	23 3	15 16	2 51	17 54	12 31	24 54	19 35	21 34
15		35	9 58	22 56	16 3	3 S47	53	32	50	34	34
16		39	10 19	47	16 47	10 22	53	32	47	34	34
17		43	10 40	37	17 30	16 27	52	33	43	33	35
18		47	11 1	26	18 10	21 31	51	33	39	33	35
19		51	11 22	13	18 48	25 6	50	34	35	32	35
20		55	11 42	21 59	19 23	26 52	49	34	31	32	35
21	1	59	12 3	21 43	19 56	26 44	17 48	12 34	24 27	19 31	21 35
22	2	3	12 23	27	20 27	24 51	47	34	23	31	35
23		7	12 43	9	20 54	21 34	46	35	18	30	36
24		11	13 3	20 50	21 19	17 16	45	35	14	30	36
25		15	13 22	30	21 42	12 17	44	35	9	29	36
26		18	13 41	9	22 2	6 54	44	35	4	29	36
27		22	14 1	19 47	22 20	1 22	43	34	23 59	28	37
28	2	26	14 19	19 24	22 35	4 N 8	17 42	12 34	23 54	19 28	21 37
29		30	14 38	1	22 47	9 25	41	34	49	28	37
30	2	34	14 56	18 37	22 57	14 20	17 40	12 33	23 43	19 27	21 37

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1897

New Moon May 1st in ♉ 11° 20′

New Moon May 31st in ♊ 10° 14′

Longitude of the Planets

D	☉	☿	♂	♃	♄	♅	♆	♇	☊
	° ♉ ′	° ♉ ′	° ♊ ′	° ♉ ′	° ♏ ′	° ♏ ′	° ♌ ′	° ♏ ′	° ♒ ′
1	11 20	6 R58	1 34	7 21	28R43	0 15	20 33	27R43	18 37	10 45
2	12 18	6 23	2 16	19 13	39	16	21 6	41	38	42
3	13 16	5 47	2 52	1 ♊ 5	35	17	21 39	38	40	39
4	14 14	5 12	3 23	12 58	31	19	22 12	36	42	36
5	15 12	4 40	3 47	24 55	26	20	22 45	33	44	33
6	16 11	4 8	4 8	6 ♌57	22	22	23 18	31	45	29
7	17 9	3 38	4 23	19 9	28 18	0 24	23 51	27 28	18 47	10 26
8	18 7	3 10	4 32	1 ♍34	13	26	24 24	26	49	23
9	19 5	2 44	4 37	14 17	9	28	24 57	24	51	20
10	20 2	2 20	4 R36	27 21	5	30	25 31	21	53	17
11	21 0	1 59	4 31	10♎52	0	33	26 4	19	55	14
12	21 58	1 40	4 21	24 51	27 56	36	26 38	16	57	10
13	22 56	1 23	4 8	9 ♏18	51	39	27 11	14	59	7
14	23 54	1 8	3 50	24 11	27 47	0 42	27 45	27 11	19 1	10 4
15	24 52	0 55	3 28	9 ♎22	42	45	28 19	9	3	1
16	25 49	0 46	3 2	24 41	38	48	28 53	6	6	9 58
17	26 47	0 38	2 34	9 ♐58	34	52	29 27	4	8	55
18	27 45	0 33	2 2	25 1	29	56	0 ♍ 1	1	10	51
19	28 43	0 31	1 31	9 ♑41	25 1	0	0 35	26 59	13	48
20	29 40	0 30	0 57	23 54	20	5	1 9	56	15	45
21	0♊38	0 D32	0 24	7 ♒38	27 16	1 9	1 43	26 54	19 17	9 42
22	1 36	0 36	29♉49	20 53	11	13	2 17	51	19	39
23	2 33	0 43	14	3 ♓45	7	18	2 53	49	21	36
24	3 31	0 52	28 42	16 16	2	23	3 27	46	23	32
25	4 28	1 2	28 12	28 31	26 58	28	4 2	44	25	29
26	5 26	1 15	27 42	10 ♈35	53	33	4 36	41	27	26
27	6 24	1 31	27 17	22 32	49	38	5 11	39	29	23
28	7 21	1 47	26 54	4 ♉24	26 45	1 43	5 45	26 36	19 31	9 20
29	8 19	2 5	26 34	16 16	40	48	6 18	34	34	17
30	9 16	2 26	26 17	28 8	36	54	6 52	31	36	13
31	10 14	2 49	26 6	10♊ 2	26 31	2 0	7 26	26 29	19 38	9 10

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1897

Full Moon May 16th in ♏ 25° 49′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ N	♄ S	♅ N	♂ N	♃ S	♆ N
1	2 38	15 15	18 13	23 5	18 40	17 39	12 33	23 38	19 26	21 37
2	42	32	17 48	23 11	22 17	38	33	32	26	37
3	46	50	17 23	23 14	24 57	37	32	26	25	38
4	50	16 7	16 59	23 15	26 32	36	31	20	25	38
5	54	25	16 34	23 13	26 54	35	30	14	24	38
6	58	41	16 10	23 10	25 59	35	30	8	24	38
7	3 2	16 58	15 47	23 4	23 50	17 34	12 29	23 2	19 23	21 38
8	6	17 14	15 24	22 56	20 31	33	28	22 55	23	38
9	10	30	15 1	22 47	16 10	32	27	49	22	39
10	14	46	14 39	22 35	10 57	31	26	42	21	39
11	18	18 1	14 18	22 21	5 4	30	25	35	20	39
12	22	16	13 58	22 6	1 S14	29	24	28	20	39
13	26	31	13 39	21 48	7 41	28	22	21	19	40
14	3 29	18 46	13 21	21 30	13 53	17 27	12 21	22 14	19 19	21 40
15	33	19 0	13 4	21 10	19 22	26	20	6	18	40
16	37	14	12 48	20 48	23 38	25	19	21 59	18	40
17	41	27	12 33	20 26	26 13	24	17	51	17	41
18	45	40	12 19	20 3	26 50	23	16	43	17	41
19	49	53	12 7	19 39	25 32	22	14	35	16	41
20	53	20 6	11 55	19 15	22 36	21	12	27	16	41
21	3 57	20 18	11 45	18 51	18 27	17 20	12 10	21 19	19 15	21 41
22	4 1	30	11 36	18 27	13 31	19	9	11	15	41
23	5	41	11 28	18 4	8 7	18	7	3	14	42
24	9	52	11 21	17 42	2 33	17	5	20 54	14	42
25	13	21 3	11 15	17 20	2 N59	16	3	45	13	42
26	17	13	11 11	17 0	8 19	16	1	37	13	42
27	21	23	11 7	16 42	13 17	15	11 59	28	12	43
28	4 25	21 33	11 4	16 25	17 44	17 15	11 57	20 19	19 11	21 43
29	29	42	11 2	16 10	21 30	13	55	9	10	43
30	33	51	11 1	15 57	24 23	12	53	0	10	43
31	4 36	22 0	11 1	15 46	26 12	17 11	11 50	19 51	19 9	21 43

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1897

New Moon June 30th in ♋ 8° 53′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♆	♃	☊
	° ♊′	° ♉′	° ♉′	° ♊′	° ♏′	° ♏′	° ♌′	° ♏′	° ♊′	° ♒′
1	11 11	3 13	25R59	22 1	26R27	2 6	8 1	26R27	19 40	9 7
2	12 9	3 39	25 55	4 ♋ 5	23	13	8 36	24	42	4
3	13 6	4 7	25D56	16 16	19	20	9 10	22	44	1
4	14 4	4 35	26 1	28 37	15	26	9 46	19	46	8 57
5	15 1	5 6	26 11	11♌ 9	11	33	10 21	17	48	54
6	15 58	5 38	26 25	23 57	7	40	10 56	15	50	51
7	16 56	6 12	26 45	7 ♍ 3	26 3	2 47	11 31	26 13	19 52	8 48
8	17 53	6 46	27 8	20 30	25 59	53	12 6	10	54	45
9	18 50	7 22	27 35	4 ♎22	55	3 0	12 41	8	56	42
10	19 48	7 59	28 7	18 37	50	7	13 16	6	59	38
11	20 45	8 36	28 42	3 ♍14	46	14	13 51	4	20 1	35
12	21 42	9 15	29 23	18 9	42	22	14 26	1	3	32
13	22 40	9 55	0 ♊ 9	3 ♪14	38	30	15 1	25 59	5	29
14	23 37	10 37	0 57	18 20	25 34	3 38	15 36	25 57	20 8	8 26
15	24 34	11 19	1 48	3 ♈17	30	46	16 11	55	10	23
16	25 31	12 2	2 44	17 56	27	54	16 46	53	12	19
17	26 29	12 47	3 45	2 ♒11	23	4 2	17 21	51	14	16
18	27 26	13 32	4 49	16 0	20	10	17 55	49	17	13
19	28 23	14 17	5 56	29 22	17	18	18 31	47	19	10
20	29 20	15 4	7 6	12♓18	13	26	19 6	45	21	7
21	0♋18	15 51	8 21	24 53	25 10	4 35	19 42	25 43	20 23	8 3
22	1 15	16 39	9 40	7 ♈10	7	43	20 18	41	26	0
23	2 12	17 27	11 1	19 15	4	52	20 54	39	28	7 57
24	3 9	18 18	12 27	1 ♉11	1	5 1	21 30	37	30	54
25	4 7	19 9	13 56	13 4	24 58	10	22 5	35	32	51
26	5 4	19 59	15 27	24 55	55	19	22 41	33	35	47
27	6 1	20 52	17 2	6 ♊50	52	28	23 17	32	37	44
28	6 58	21 42	18 41	18 49	24 49	5 37	23 52	25 30	20 39	7 41
29	7 55	22 35	20 23	0 ♋55	46	47	24 28	29	41	38
30	8 53	23 30	22 8	13 11	24 44	5 57	25 4	25 27	20 44	7 35

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1897

Full Moon June 14th in ♐ 23° 37′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ N	♄ S	♅ N	♂ N	♆ S	♇ N
1	4 40	22 8	11 2	15 37	26 50	17 10	11 48	19 41	19 9	21 44
2	44	16	4	30	26 11	9	46	32	9	44
3	48	23	7	26	24 17	8	43	23	8	44
4	52	30	10	23	21 12	8	41	12	8	44
5	56	37	14	23	17 6	7	38	2	7	44
6	5 0	43	19	25	12 9	6	36	18 52	6	44
7	5 4	22 49	11 24	15 29	6 33	17 5	11 33	18 42	19 5	21 44
8	8	54	30	35	0 31	5	31	31	5	44
9	12	59	37	43	5 s42	4	28	21	4	45
10	16	23 4	44	52	11 48	3	25	10	4	45
11	20	8	52	16 4	17 25	2	22	0	3	45
12	24	12	12 0	16	22 5	2	20	17 49	3	45
13	28	15	8	31	25 20	1	17	38	2	46
14	5 32	23 18	12 18	16 46	26 47	17 1	11 14	17 27	19 2	21 46
15	36	21	27	17 3	26 15	16 59	11	16	1	46
16	40	23	37	21	23 54	59	8	4	1	46
17	44	24	47	40	20 4	58	5	16 53	0	46
18	47	26	58	18 0	15 14	58	2	42	0	46
19	51	27	13 9	21	9 49	57	10 59	30	18 59	47
20	55	27	20	42	4 9	56	56	19	59	47
21	5 59	23 27	13 32	19 4	1 N31	16 55	10 52	16 7	18 58	21 47
22	6 3	27	43	26	7 0	55	49	15 55	58	47
23	7	26	55	48	12 7	54	46	43	58	47
24	11	25	14 7	20 11	16 44	54	43	31	58	47
25	15	23	20	33	20 41	53	39	19	57	48
26	19	21	32	55	23 47	53	36	7	57	48
27	23	19	45	21 17	25 53	52	32	14 54	56	48
28	6 27	23 16	14 57	21 37	26 48	16 52	10 29	14 42	18 56	21 48
29	31	13	15 10	58	26 28	51	25	29	56	48
30	6 35	23 9	15 23	22 17	24 50	16 51	10 21	14 17	18 55	21 48

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1897

Eclipse of Sun July 29th in ♌ 6° 33'

Longitude of the Planets

D	☉	♀	♂	♃	♄	♅	♆	♇	☊
	° ♋ ′	° ♉ ′	° ♊ ′	° ♋ ′	° ♍ ′	° ♍ ′	° ♌ ′	° ♍ ′	° ♐ ′
1	9 50	24 24	23 55	25 36	24R42	6 7	25 41	25R26	20 46	7 32
2	10 47	25 18	25 45	8 ♌12	39	16	26 18	24	48	28
3	11 44	26 12	27 39	21 0	37	25	26 54	23	50	25
4	12 42	27 8	29 35	4 ♍ 3	35	35	27 31	21	53	22
5	13 39	28 4	1♋35	17 20	33	45	28 7	19	55	19
6	14 36	29 0	3 35	0 ♎53	31	55	28 44	18	57	16
7	15 33	29 57	5 40	14 44	24 29	7 5	29 20	25 17	20 59	7 13
8	16 30	0♊55	7 45	28 51	27	15	29 55	16	21 1	9
9	17 28	1 52	9 50	13♍13	25	25	0♍31	15	3	6
10	18 25	2 50	11 57	27 47	23	36	1 8	14	5	3
11	19 22	3 48	14 5	12 ♐29	21	47	1 44	13	7	0
12	20 19	4 46	16 14	27 11	20	58	2 21	12	9	6 57
13	21 16	5 46	18 23	11♑48	19	8 9	2 57	11	11	54
14	22 14	6 45	20 31	26 12	24 17	8 20	3 34	25 10	21 13	6 50
15	23 11	7 45	22 39	10♒18	16	31	4 11	9	15	47
16	24 8	8 46	24 47	24 3	15	42	4 47	8	17	44
17	25 5	9 46	26 55	7 ♓24	14	53	5 24	7	19	41
18	26 3	10 47	29 2	20 23	13	9 3	6 2	6	21	38
19	27 0	11 49	1 ♌ 8	3 ♈ 1	12	14	6 39	6	23	35
20	27 57	12 50	3 14	15 21	11	25	7 16	5	25	31
21	28 54	13 52	5 16	27 28	24 10	9 36	7 54	25 4	21 27	6 28
22	29 52	14 54	7 18	9 ♉26	9	47	8 30	4	29	25
23	0♌49	15 56	9 17	21 19	9	58	9 7	3	31	22
24	1 46	16 58	11 15	3 ♊12	8	10 9	9 43	3	32	18
25	2 44	18 1	13 11	15 8	8	21	10 20	2	34	15
26	3 41	19 4	15 6	27 13	8	32	10 57	2	36	12
27	4 38	20 8	16 58	9 ♋27	7	44	11 34	1	37	9
28	5 36	21 11	18 49	21 55	24 7	10 55	12 12	25 1	21 39	6 6
29	6 33	22 14	20 40	4 ♌36	D 7	11 7	12 49	0	41	3
30	7 31	23 18	22 28	17 32	7	18	13 26	0	43	5 59
31	8 28	24 22	24 14	0 ♍43	24 8	11 30	14 4	24 59	21 45	5 56

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1897

Full Moon July 14th in ♑ 22° 14′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♅	♂	♅	♆
		N	N	N	N	S	N	N	S	N
1	6 39	23 5	15 35	22 35	21 59	16 50	10 18	14 4	18 55	21 48
2	43	1	48	22 51	18 3	50	14	13 51	55	48
3	47	22 56	16 1	23 6	13 13	50	10	38	54	49
4	51	51	14	23 19	7 44	50	7	25	54	49
5	54	45	26	23 30	1 49	49	3	12	53	49
6	58	39	39	23 39	4 s17	49	9 59	12 59	53	49
7	7 2	22 33	16 52	23 45	10 19	16 49	9 55	12 46	18 53	21 49
8	6	26	17 4	23 49	15 56	49	51	32	53	49
9	10	19	16	23 50	20 47	48	47	19	52	49
10	14	11	28	23 49	24 26	48	43	5	52	49
11	18	3	41	23 45	26 30	48	39	11 52	52	50
12	22	21 55	52	23 38	26 44	48	35	38	52	50
13	26	46	18 4	23 29	25 5	47	31	25	51	50
14	7 30	21 37	18 16	23 16	21 49	16 47	9 27	11 11	18 51	21 50
15	34	28	27	23 1	17 18	47	23	10 57	51	50
16	38	18	38	22 44	11 58	47	19	43	51	50
17	42	8	49	22 24	6 15	47	15	29	50	51
18	46	20 57	59	22 2	0 25	47	11	15	50	51
19	50	46	19 10	21 37	5 N16	47	6	1	50	51
20	54	35	20	21 11	10 36	47	2	9 46	50	51
21	7 58	20 23	19 29	20 43	15 27	16 47	8 58	9 32	18 50	21 51
22	8 1	11	39	20 12	19 38	47	54	18	50	51
23	5	19 59	48	19 41	23 1	48	49	3	50	51
24	9	47	56	19 8	25 25	48	45	8 49	50	51
25	13	34	20 5	18 33	26 42	48	40	34	49	51
26	17	20	13	17 58	26 44	48	36	20	49	51
27	21	7	20	17 21	25 29	48	32	5	49	51
28	8 25	18 53	20 27	16 44	22 57	16 48	8 28	7 50	18 49	21 51
29	29	39	34	16 5	19 15	49	23	35	49	51
30	33	24	40	15 26	14 35	49	18	21	49	51
31	8 37	18 9	20 46	14 46	9 10	16 49	8 13	7 6	18 49	21 52

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1897

New Moon August 28th in ♍ 5° 23′

Longitude of the Planets

D	☉	♀	♂	☽	♄	♅	♃	♆	♇	☊
	° ♌′	° ♊′	° ♌′	° ♍′	° ♏′	° ♍′	° ♍′	° ♏′	° ♊′	° ♒′
1	9 26	25 27	25 59	14 8	24 8	11 42	14 40	24 59	21 46	5 53
2	10 23	26 32	27 44	27 46	9	53	15 18	59	48	50
3	11 20	27 37	29 25	11♎36	9	12 5	15 56	59	50	47
4	12 18	28 42	1 ♍ 5	25 36	10	17	16 33	59	51	44
5	13 15	29 47	2 44	9 ♏44	10	30	17 12	25 0	52	41
6	14 13	0♋53	4 21	23 58	11	42	17 50	0	54	37
7	15 10	2 0	5 56	8 ♐15	24 12	12 55	18 27	25 0	21 55	5 34
8	16 8	3 6	7 32	22 33	13	13 7	19 5	1	57	31
9	17 6	4 12	9 3	6 ♑48	14	19	19 42	1	58	28
10	18 3	5 18	10 34	20 58	16	31	20 19	2	22 0	24
11	19 1	6 25	12 2	4 ♒57	18	44	20 57	2	1	21
12	19 58	7 31	13 29	18 43	19	56	21 35	3	3	18
13	20 56	8 38	14 54	2 ♓14	21	14 8	22 13	4	4	15
14	21 54	9 45	16 18	15 26	24 22	14 21	22 52	25 4	22 6	5 12
15	22 51	10 52	17 41	28 20	23	34	23 29	5	7	9
16	23 49	11 59	19 2	10♈57	25	46	24 7	5	8	5
17	24 47	13 7	20 20	23 17	27	58	24 45	6	9	2
18	25 44	14 15	21 37	5 ♉25	29	15 11	25 23	6	10	4 59
19	26 42	15 23	22 53	17 23	31	23	26 1	7	11	56
20	27 40	16 30	24 6	29 16	33	36	26 39	8	12	53
21	28 38	17 37	25 17	11♊ 9	24 35	15 48	27 18	25 9	22 13	4 50
22	29 36	18 46	26 27	23 6	37	16 1	27 57	10	14	46
23	0♍34	19 55	27 33	5 ♋13	40	13	28 36	11	15	43
24	1 31	21 3	28 38	17 33	42	25	29 15	12	16	40
25	2 29	22 11	29 40	0 ♌ 9	45	38	29 54	13	17	37
26	3 27	23 19	0♎40	13 4	48	52	0♎33	14	18	34
27	4 25	24 28	1 38	26 20	51	17 5	1 10	15	19	31
28	5 23	25 37	2 33	9 ♍54	24 54	17 18	1 49	25 16	22 20	4 27
29	6 21	26 46	3 24	23 46	57	31	2 27	17	21	24
30	7 19	27 55	4 13	7 ♎52	25 1	44	3 6	18	21	21
31	8 18	29 5	4 57	22 7	25 4	17 56	3 44	25 19	22 22	4 18

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1897

Full Moon August 12th in ♒ 19° 58′

Declination of the Planets

D	S T	☉ N	☿ N	☿ N	☽ N	♄ S	♅ N	♂ N	♆ S	♆ N
1	8 41	17 54	20 52	14 6	3 14	16 50	8 9	6 51	18 49	21 52
2	45	17 39	57	13 25	2 s55	50	5	36	49	52
3	49	17 23	21 2	12 44	9 1	50	0	21	49	52
4	53	17 7	6	12 3	14 44	50	7 55	5	49	52
5	57	16 51	9	11 22	19 44	51	7 50	5 50	49	52
6	9 1	16 34	13	10 40	23 38	51	46	35	49	52
7	9 5	16 18	21 15	9 58	26 6	16 52	7 41	5 20	18 49	21 52
8	9	16 0	17	9 16	26 53	52	37	4	49	52
9	12	15 43	19	8 35	25 52	53	32	4 49	50	52
10	16	15 26	20	7 53	23 11	53	27	34	50	52
11	20	15 8	21	7 12	19 8	54	22	18	50	52
12	24	14 50	21	6 30	14 7	54	18	3	50	52
13	28	14 31	21	5 49	8 31	55	13	3 47	50	52
14	9 32	14 13	21 20	5 9	2 40	16 56	7 8	3 32	18 50	21 52
15	36	13 54	18	4 28	3 N 9	57	3	16	51	52
16	40	13 35	16	3 48	8 43	57	6 58	1	51	52
17	44	13 16	14	3 9	13 48	58	53	2 45	51	53
18	48	12 57	11	2 30	18 16	59	48	29	51	53
19	52	12 37	7	1 52	21 58	17 0	43	14	51	53
20	56	12 17	3	1 14	24 42	0	39	1 58	51	53
21	10 0	11 57	20 58	0 37	26 22	17 1	6 34	1 42	18 52	21 53
22	4	11 37	53	0 1	26 50	2	29	26	52	53
23	8	11 17	47	0 s 35	26 2	3	24	11	52	53
24	12	10 56	40	1 10	23 57	3	19	0 55	52	53
25	16	10 35	33	1 43	20 39	4	14	39	53	53
26	19	10 15	26	2 16	16 17	5	9	23	53	53
27	23	9 53	18	2 47	11 2	6	4	7	53	53
28	10 27	9 32	20 9	3 18	5 9	17 7	5 59	0 s 9	18 53	21 53
29	31	9 11	0	3 47	1 s 5	8	5 54	25	54	53
30	35	8 49	19 50	4 14	7 20	9	49	40	54	53
31	10 39	8 28	19 40	4 40	13 18	17 10	5 44	0 56	18 55	21 53

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1897

New Moon September 26th in ♎ 3° 38′

Longitude of the Planets

D	☉	♀	☿	☽	♄	♃	♂	♅	♆	♇
	°♍′	°♌′	°♎′	°♏′	°♑′	°♍′	°♎′	°♏′	°♓′	°♒′
1	9 16	0 14	5 38	6 26	25 7	18 9	4 24	25 21	22 24	4 15
2	10 14	1 24	6 15	20 46	10	22	5 2	23	25	11
3	11 12	2 35	6 48	5 ♐ 2	13	35	5 42	25	26	8
4	12 10	3 46	7 19	19 11	17	48	6 21	26	27	5
5	13 8	4 56	7 42	3 ♑ 13	21	19 1	6 59	28	28	2
6	14 7	6 6	8 2	17 6	24	13	7 38	30	28	3 59
7	15 5	7 16	8 16	0 ♒ 50	25 28	19 26	8 18	25 32	22 29	3 56
8	16 3	8 26	8 24	14 23	32	39	8 57	33	30	52
9	17 2	9 36	8 26	27 44	36	52	9 36	35	31	49
10	18 0	10 47	8 R 22	10 ♓ 54	39	20 5	10 15	37	31	46
11	18 58	11 58	8 12	23 50	43	18	10 55	39	32	43
12	19 57	13 8	7 55	6 ♈ 33	47	31	11 34	41	32	40
13	20 55	14 18	7 31	19 2	52	44	12 14	43	33	37
14	21 54	15 29	7 1	1 ♉ 18	25 56	20 57	12 52	25 45	22 33	3 33
15	22 52	16 40	6 24	13 23	26 1	21 10	13 31	47	33	30
16	23 51	17 51	5 40	25 20	6	23	14 10	49	33	27
17	24 49	19 2	4 50	7 ♊ 12	10	36	14 50	52	33	24
18	25 48	20 13	3 55	19 3	15	49	15 30	54	34	20
19	26 47	21 26	2 56	0 ♋ 58	20 22	2	16 10	56	34	17
20	27 45	22 37	1 53	13 3	25	15	16 50	59	34	14
21	28 44	23 49	0 47	25 23	26 30	22 28	17 30	26 2	22 34	3 11
22	29 43	25 0	29 ♍ 42	8 ♌ 2	35	41	18 10	4	34	8
23	0 ♎ 42	26 13	28 38	21 4	40	54	18 50	6	34	5
24	1 40	27 24	27 35	4 ♍ 32	45 23	6	19 30	9	34	1
25	2 39	28 36	26 38	18 24	50	19	20 10	12	34	2 58
26	3 38	29 47	25 47	2 ♎ 39	55	32	20 50	15	34	55
27	4 37	1 ♍ 0	25 3	17 12	27 0	45	21 30	17	34	52
28	5 36	2 12	24 27	1 ♍ 55	27 6	23 58	22 10	26 20	22 34	2 49
29	6 35	3 26	24 0	16 40	11	24 11	22 50	22	34	46
30	7 34	4 37	23 44	1 ♐ 20	27 16	24 24	23 30	26 25	22 34	2 43

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1897

Full Moon September 11th in ♓ 18° 58′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		N	N	S	S	S	N	S	S	N
1	10 43	8 6	19 29	5 5	18 34	17 11	5 39	1 12	18 55	21 53
2	47	7 44	19 18	5 27	22 47	12	34	28	55	53
3	51	7 22	19 6	5 48	25 36	13	29	44	55	53
4	55	7 0	18 53	6 7	26 46	14	24	2 0	55	53
5	59	6 38	18 40	6 23	26 12	15	19	16	56	53
6	11 3	6 15	18 26	6 37	23 59	16	14	32	56	53
7	11 7	5 53	18 12	6 48	20 24	17 17	5 8	2 48	18 57	21 53
8	11	5 30	17 58	6 56	15 46	18	3	3 4	57	53
9	15	5 7	17 43	7 1	10 26	20	4 58	20	58	53
10	19	4 45	17 27	7 3	4 43	21	53	36	58	53
11	23	4 22	17 11	7 1	1 N 5	22	48	52	59	53
12	27	3 59	16 54	6 56	6 44	23	43	4 8	59	53
13	30	3 36	16 37	6 46	12 1	24	38	24	19 0	53
14	11 34	3 13	16 20	6 32	16 43	17 25	4 33	4 39	19 0	21 53
15	38	2 50	16 2	6 15	20 42	27	28	55	2	53
16	42	2 27	15 43	5 53	23 46	28	23	5 11	2	53
17	46	2 3	15 24	5 27	25 47	29	18	27	3	53
18	50	1 40	15 5	4 57	26 40	30	13	43	3	53
19	54	1 17	14 45	4 23	26 18	32	7	59	4	53
20	58	0 53	14 25	3 47	24 42	33	2	6 14	4	53
21	12 2	0 30	14 4	3 8	21 53	17 34	3 57	6 30	19 5	21 53
22	6	0 7	13 43	2 27	17 59	35	52	46	5	53
23	10	0 S17	13 21	1 45	13 7	37	47	7 2	6	53
24	14	0 40	13 0	1 3	7 29	38	42	17	6	53
25	18	1 4	12 37	0 23	1 21	40	37	33	7	52
26	22	1 27	12 15	0 N16	5 S 1	41	32	48	7	52
27	26	1 50	11 52	0 53	11 13	42	27	8 4	8	52
28	12 30	2 14	11 28	1 25	16 53	17 43	3 22	8 19	19 8	21 52
29	34	2 37	11 4	1 54	21 33	45	17	35	9	52
30	12 37	3 1	10 40	2 18	24 50	17 46	3 12	8 50	19 10	21 52

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1897

New Moon October 25th in ♏ 2° 21′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♃	♂	♅	♆	♇
	°♎′	°♍′	°♍′	°♐′	°♑′	°♍′	°♎′	°♑′	°♊′	°♒′
1	8 33	5 51	23 37	15 49	27 22	24 36	24 10	26 27	22R34	2 39
2	9 32	7 4	23 42	0 ♈ 3	27	49	24 50	30	33	36
3	10 32	8 17	23 57	14 0	33	25 2	25 31	33	33	33
4	11 31	9 30	24 21	27 41	38	15	26 11	36	33	30
5	12 30	10 42	24 56	11♒ 7	44	27	26 51	38	32	27
6	13 29	11 54	25 41	24 19	50	40	27 31	41	32	23
7	14 28	13 6	26 32	7 ♓ 19	27 55	25 52	28 12	26 44	22 32	2 20
8	15 28	14 19	27 32	20 7	28 1	26 5	28 53	47	31	17
9	16 27	15 33	28 38	2 ♈ 45	6	18	29 34	50	31	14
10	17 26	16 46	29 51	15 13	12	30	0♏ 14	53	30	11
11	18 26	17 59	1♎ 10	27 31	17	43	0 55	56	30	8
12	19 25	19 13	2 32	9 ♉ 39	23	55	1 36	59	29	4
13	20 25	20 26	3 57	21 39	29	27 7	2 16	27 3	29	1
14	21 24	21 39	5 27	3 ♊ 33	28 36	27 20	2 57	27 6	22 28	1 58
15	22 24	22 53	6 58	15 23	42	32	3 38	10	28	55
16	23 23	24 6	8 32	27 12	49	45	4 19	13	27	51
17	24 23	25 20	10 10	9 ♋ 5	55	58	5 1	16	26	49
18	25 22	26 34	11 48	21 7	29 2	28 11	5 42	19	25	45
19	26 22	27 47	13 26	3 ♌ 23	8	23	6 24	22	24	42
20	27 22	29 1	15 6	15 59	14	35	7 5	25	23	39
21	28 21	0♎ 16	16 45	28 59	29 21	28 46	7 46	27 28	22 22	1 36
22	29 21	1 30	18 26	12♍ 27	27	58	8 27	32	2	32
23	0♏ 21	2 44	20 8	26 25	34	29 10	9 9	35	20	29
24	1 21	3 58	21 49	10♎ 50	41	22	9 50	39	19	26
25	2 21	5 12	23 31	25 39	47	35	10 31	43	18	23
26	3 21	6 27	25 13	10♏ 43	54	47	11 13	46	17	20
27	4 21	7 41	26 53	25 52	0 ♐ 1	59	11 54	50	16	17
28	5 21	8 55	28 34	10 ♐ 55	0 8	0♎ 12	12 36	27 53	22 15	1 13
29	6 21	10 10	0♏ 13	25 44	14	24	13 17	57	14	10
30	7 21	11 24	1 52	10♑ 13	21	35	13 58	28 0	13	7
31	8 21	12 39	3 32	24 18	0 27	0 46	14 39	28 3	12	1 4

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1897

Full Moon October 10th in ♈ 17° 26′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		S	N	N	S	S	N	S	S	N
1	12 41	3 24	10 16	2 37	26 27	17 48	3 7	9 6	19 11	21 52
2	45	3 47	9 51	2 50	26 16	49	2	21	11	52
3	49	4 10	9 26	2 59	24 25	51	2 57	36	12	52
4	53	4 34	9 1	3 2	21 9	52	52	52	12	52
5	57	4 57	8 36	3 0	16 49	53	47	10 7	13	52
6	13 1	5 20	8 10	2 53	11 44	54	42	22	13	52
7	13 5	5 43	7 44	2 42	6 14	17 56	2 37	10 37	19 14	21 52
8	9	6 6	7 17	2 26	0 33	57	32	52	15	52
9	13	6 28	6 51	2 6	5 N 4	59	27	11 7	16	52
10	17	6 51	6 24	1 43	10 24	18 0	22	22	16	52
11	21	7 14	5 57	1 16	15 14	2	17	37	17	52
12	25	7 36	5 30	0 47	19 25	3	12	51	18	52
13	29	7 59	5 3	0 15	22 45	5	7	12 6	19	52
14	13 33	8 21	4 35	0 S 19	25 5	18 6	2 3	12 21	19 20	21 52
15	37	8 43	4 7	0 55	26 18	8	1 58	35	21	51
16	41	9 6	3 39	1 33	26 18	9	53	49	21	51
17	45	9 28	3 11	2 12	25 6	12	44	13 4	23	51
18	48	9 49	2 43	2 52	22 44	11	48	13 18	22	51
19	52	10 11	2 15	3 33	19 18	14	39	32	24	51
20	56	10 33	1 47	4 14	14 53	15	34	46	24	51
21	14 0	10 54	1 18	4 56	9 41	18 17	1 29	14 0	19 25	21 51
22	4	11 15	0 50	5 38	3 52	18	25	14	26	51
23	8	11 36	0 21	6 20	2 S20	20	20	28	27	51
24	12	11 57	0 S 8	7 2	8 36	21	16	42	28	51
25	16	12 18	0 36	7 45	14 33	23	11	55	29	51
26	20	12 38	1 5	8 27	19 44	24	6	15 9	29	51
27	24	12 59	1 34	9 8	23 39	26	1	22	30	50
28	14 28	13 19	2 3	9 50	25 54	18 27	0 57	15 36	19 30	21 50
29	32	13 39	2 32	10 31	26 16	29	0 52	49	32	50
30	36	13 58	3 0	11 11	24 50	30	48	16 2	32	50
31	14 40	14 18	3 29	11 51	21 50	18 32	0 43	16 15	19 33	21 50

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Ephemeris of the Planets' Places
Calculated for Mean Noon at Greenwich
November, 1897
New Moon November 24th in ♐ 2° 31′
Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♃	♆	♇
	° ♏′	° ♒′	° ♏′	° ♒′	° ♐′	° ♒′	° ♏′	° ♏′	° ♊′	° ♒′
1	9 21	13 53	5 12	8 0	0 34	0 57	15 22	28 6	22R12	1 1
2	10 21	15 7	6 51	21 20	40	1 8	16 3	10	11	0 57
3	11 21	16 21	8 29	4 ♓22	46	19	16 45	13	10	54
4	12 21	17 36	10 6	17 7	53	30	17 27	17	9	51
5	13 22	18 51	11 44	29 40	1 0	42	18 9	20	7	48
6	14 22	20 5	13 22	12♈ 2	7	53	18 52	24	6	45
7	15 22	21 20	14 58	24 16	1 14	2 5	19 34	28 27	22 5	0 42
8	16 22	22 35	16 34	6 ♉22	21	16	20 17	31	3	38
9	17 23	23 49	18 9	18 22	28	26	21 0	35	1	35
10	18 23	25 4	19 46	0 ♊17	35	37	21 43	38	0	32
11	19 23	26 19	21 21	12 8	42	48	22 25	42	21 58	29
12	20 24	27 34	22 56	23 57	49	58	23 7	46	57	26
13	21 24	28 49	24 32	5 ♋47	56	3 9	23 49	50	55	23
14	22 25	0 ♏ 3	26 7	17 40	2 3	3 19	24 31	28 54	21 54	0 19
15	23 25	1 18	27 42	29 41	10	29	25 14	58	52	16
16	24 26	2 33	29 15	11♌55	17	40	25 57	29 1	51	13
17	25 26	3 48	0 ♐49	24 27	24	50	26 40	5	50	10
18	26 27	5 4	2 22	7 ♍21	31 4	0	27 23	9	49	7
19	27 27	6 19	3 55	20 42	37	10	28 5	12	47	4
20	28 28	7 34	5 29	4 ♎33	44	21	28 48	16	46	0
21	29 29	8 49	7 2	18 53	2 52	4 31	29 31	29 20	21 44	29 57
22	0 ♐ 29	10 4	8 34	3 ♏41	59	41	0 ♐ 14	24	42	♑54
23	1 30	11 19	10 7	18 49	3 7	50	0 57	28	41	51
24	2 31	12 34	11 40	4 ♐ 7	14	59	1 39	31	39	48
25	3 31	13 49	13 13	19 24	21 5	9	2 22	35	37	45
26	4 32	15 4	14 46	4 ♑30	28	18	3 5	38	35	41
27	5 33	16 19	16 17	19 15	34	27	3 49	42	34	38
28	6 34	17 34	17 48	3 ♒36	♑ 41 5	36	4 32	29 46	21 32	29 35
29	7 35	18 49	19 19	17 29	49	45	5 16	50	31	32
30	8 36	20 5	20 52	0 ♓55	3 56	5 54	5 59	29 54	21 29	29 29

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1897

Full Moon November 9th in ♉ 17° 23

Declination of the Planets

D	♑	☉	☿	♀	♂	♃	♄	♅	♆	♇
		S	S	S	S	S	S	N	S	S	N
1	14 44	14 37	3 58	12 31	17 40	18 34	0 39	16 28	19 34	21 50
2	48	14 56	4 27	13 10	12 43	35	35	40	35	50
3	52	15 15	4 55	13 48	7 19	37	30	53	36	50
4	55	15 33	5 24	14 25	1 43	38	26	17 5	37	50
5	59	15 52	5 52	15 2	3 N50	40	21	18	38	50
6	15 3	16 10	6 21	15 38	9 9	41	17	30	38	50
7	15 7	16 27	6 49	16 13	14 3	18 43	0 13	17 42	19 39	21 50
8	11	16 45	7 17	16 47	18 21	44	9	54	40	50
9	15	17 2	7 45	17 21	21 52	46	4	18 6	41	49
10	19	17 19	8 13	17 54	24 26	47	0 s 0	17	42	49
11	23	17 35	8 40	18 25	25 55	49	4	29	43	49
12	27	17 52	9 8	18 56	26 14	50	8	40	43	49
13	31	18 8	9 35	19 26	25 20	51	12	51	44	49
14	15 35	18 23	10 2	19 55	23 17	18 52	0 16	19 3	19 45	21 49
15	39	18 38	10 29	20 23	20 10	54	20	18	46	49
16	43	18 53	10 55	20 50	16 8	55	24	24	46	49
17	47	19 8	11 22	21 16	11 19	57	28	35	47	48
18	51	19 22	11 48	21 41	5 53	58	32	45	48	48
19	55	19 36	12 14	22 5	0 0	19 0	36	55	49	48
20	59	19 50	12 39	22 28	6 s 4	1	39	20 6	50	48
21	16 2	20 3	13 5	22 49	12 2	19 3	0 43	20 15	19 51	21 48
22	6	20 16	13 30	23 10	17 30	4	47	25	52	48
23	10	20 29	13 54	23 29	22 0	6	51	35	53	48
24	14	20 41	14 18	23 47	25 2	7	54	44	53	48
25	18	20 52	14 42	24 4	26 13	9	58	53	54	48
26	22	21 4	15 6	24 20	25 26	10	1 1	21 2	55	48
27	26	21 15	15 29	24 35	22 51	11	5	11	56	47
28	16 30	21 25	15 52	24 48	18 53	19 12	1 8	21 20	19 56	21 47
29	34	21 35	16 14	25 0	13 59	14	12	28	57	47
30	16 38	21 45	16 36	25 10	8 33	19 16	1 15	21 36	19 58	21 47

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1897

New Moon December 23rd in ♑ 1° 59′

Longitude of the Planets

D	☉	♀	♂	☽	♄	♅	♃	♆	♇	☊
	° ♐′	° ♏′	° ♐′	° ♓′	° ♐′	° ♒′	° ♐′	° ♏′	° ♊′	° ♑′
1	9 36	21 20	22 23	13 58	4 4	6 3	6 42	29 57	21R27	29 26
2	10 37	22 35	23 54	26 40	11	11	7 25	0 ♐ 1	25	22
3	11 38	23 50	25 26	9 ♈ 6	18	20	8 9	5	24	19
4	12 39	25 5	26 56	21 19	25	29	8 52	8	22	16
5	13 40	26 21	28 28	3 ♉ 23	32	37	9 37	11	21	13
6	14 41	27 37	29 57	15 21	39	45	10 20	15	19	9
7	15 42	28 53	1♑27	27 14	4 47	6 54	11 4	0 19	21 18	29 6
8	16 43	0 ♐ 8	2 55	9 ♊ 6	54	7 2	11 48	22	16	3
9	17 44	1 23	4 23	20 56	5 1	10	12 32	26	15	0
10	18 45	2 38	5 53	2 ♋ 48	8	17	13 14	29	13	28 57
11	19 46	3 53	7 20	14 42	15	24	13 57	33	11	54
12	20 47	5 8	8 44	26 42	22	31	14 41	36	10	50
13	21 48	6 24	10 8	8 ♌ 49	28	38	15 25	40	8	47
14	22 49	7 39	11 31	21 8	5 34	7 45	16 9	0 43	21 6	28 44
15	23 50	8 54	12 52	3 ♍ 41	41	52	16 53	47	4	41
16	24 51	10 9	14 10	16 34	48	59	17 37	50	3	38
17	25 52	11 24	15 27	29 48	55	8 6	18 22	54	1	35
18	26 53	12 40	16 40	13♎28	6 2	13	19 6	57	20 59	31
19	27 54	13 55	17 49	27 34	9	19	19 50	1 1	57	28
20	28 55	15 11	18 55	12♍ 6	16	25	20 35	4	55	25
21	29 56	16 26	19 56	26 59	6 23	8 31	21 19	1 8	20 54	28 22
22	0♑58	17 41	20 52	12 ♐ 6	30	37	22 3	11	52	19
23	1 59	18 57	21 41	27 19	36	44	22 48	15	51	16
24	3 0	20 12	22 25	12♑26	43	49	23 32	18	49	12
25	4 1	21 28	23 0	27 19	49	54	24 16	21	48	9
26	5 2	22 43	23 26	11♒51	56	59	25 2	24	46	6
27	6 3	23 58	23 42	25 56	7 3	9 4	25 47	28	44	3
28	7 5	25 13	23 48	9 ♓ 34	7 10	9 9	26 31	1 31	20 43	27 59
29	8 6	26 29	23R43	22 45	16	14	27 15	34	41	27 56
30	9 7	27 45	23 28	5 ♈ 32	22	19	28 0	37	39	53
31	10 8	29 0	22 58	18 0	7 29	9 24	28 44	1 41	20 38	27 50

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1897

Full Moon December 9th in ♊ 17° 44′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		S	S	S	S	S	S	S	S	N
1	16 42	21 54	16 58	25 19	2 54	19 17	1 18	21 45	19 59	21 47
2	46	22 3	17 19	27	2 N42	18	21	52	59	47
3	50	12	17 39	33	8 5	20	25	22 0	20 0	47
4	54	20	18 0	38	13 3	21	28	7	0	47
5	58	27	18 19	42	17 27	22	31	15	2	47
6	17 2	34	18 38	44	21 8	23	34	22	2	47
7	17 6	22 41	18 57	25 45	23 54	19 25	1 37	22 29	20 3	21 46
8	10	47	19 15	44	25 38	26	40	35	4	46
9	13	53	19 33	42	26 12	27	43	41	5	46
10	17	59	19 50	38	25 34	28	45	48	5	46
11	21	23 4	20 6	33	23 45	30	48	54	6	46
12	25	8	20 22	26	20 52	31	51	59	7	46
13	29	12	20 38	18	17 3	32	54	23 5	8	46
14	17 33	23 16	20 52	25 8	12 27	19 33	1 56	23 10	20 8	21 46
15	37	19	21 6	24 57	7 15	35	59	15	9	45
16	41	21	21 20	45	1 39	36	2 1	20	10	45
17	45	23	21 33	31	4 S11	37	4	24	11	45
18	49	25	21 45	16	10 0	38	6	29	11	45
19	53	26	21 57	1	15 29	39	8	33	12	45
20	57	27	22 8	23 44	20 17	40	10	37	13	45
21	18 1	23 27	22 18	23 26	23 54	19 42	2 13	23 40	20 14	21 45
22	5	27	22 28	8	25 55	43	15	44	14	45
23	9	26	22 37	22 49	26 1	44	17	47	15	45
24	13	25	22 45	30	24 11	45	19	50	15	45
25	17	24	22 53	11	20 40	46	21	52	17	45
26	20	21	23 0	21 52	15 56	47	22	55	17	45
27	24	19	23 6	33	10 28	48	24	57	18	44
28	18 28	23 16	23 12	21 15	4 41	19 49	2 26	23 59	20 18	21 44
29	32	12	23 16	20 59	1 N 8	50	28	24 0	19	44
30	36	8	23 21	43	6 42	51	29	2	19	44
31	18 40	23 4	23 24	20 29	11 52	19 52	2 31	24 3	20 20	21 44

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	∞	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	∞	3.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75	
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68	
4	.5563	.3522	.0649	35	10	55	73	10	35	28	73	62	
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4230	3766	3355	
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49	
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42	
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36	
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29	
10	2.1584	1.3133	1.0444	8796	7604	6676	5902	5249	4682	4180	3730	3323	
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16	
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10	
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03	
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297	
15	1.9823	1.2833	1.0280	8683	7518	0600	5843	5199	4638	4141	3695	3291	
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84	
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78	
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71	
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65	
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258	
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52	
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46	
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39	
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33	
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227	
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20	
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14	
28	.7112	.2189	.9881	03	02	25	5692	71	25	40	04	08	
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01	
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195	
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89	
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83	
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76	
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70	
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164	
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57	
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51	
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45	
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39	
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133	
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26	
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20	
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14	
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08	
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102	
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096	
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89	
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83	
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77	
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071	
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65	
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59	
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53	
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47	
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041	
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35	
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28	
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22	
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3395	16	

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	83
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	10	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	56	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06
59	68	46	46	65	02	53	18	95	83	81	88	03

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1898

Eclipse of Sun January 22nd in ♒ 2° 32′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♑′	° ♑′	° ♑′	° ♉′	° ♐′	° ♒′	° ♐′	° ♐′	° ♓′	° ♑′
1	11 9	0 15	22R18	0 12	7 35	9 28	29 29	1 44	20R37	27 47
2	12 10	1 31	21 29	12 13	42	32	0♑14	47	35	44
3	13 12	2 47	20 27	24 6	48	36	0 59	50	33	41
4	14 13	4 3	19 17	5 ♊56	54	40	1 44	53	32	37
5	15 14	5 18	18 2	17 46	8 0	44	2 29	56	31	34
6	16 15	6 34	16 43	29 38	6	48	3 14	59	29	31
7	17 16	7 50	15 22	11♋35	8 13	9 51	3 59	2 2	20 27	27 28
8	18 17	9 4	14 2	23 38	18	53	4 44	5	25	25
9	19 18	10 19	12 48	5 ♌50	24	56	5 29	8	24	22
10	20 19	11 34	11 39	18 12	29	59	6 15	11	22	18
11	21 21	12 49	10 37	0 ♍45	36	10 2	7 0	14	21	15
12	22 22	14 4	9 44	13 31	42	5	7 46	16	20	12
13	23 23	15 20	9 0	26 32	47	6	8 31	19	19	9
14	24 24	16 36	8 24	9 ♎50	8 53	10 8	9 17	2 22	20 17	27 6
15	25 25	17 52	8 1	23 26	59	10	10 2	24	16	3
16	26 26	19 8	7 44	7 ♏21	9 5	11	10 47	27	15	26 59
17	27 27	20 23	7 39	21 34	10	13	11 32	29	14	56
18	28 28	21 38	7 D41	6 ♐ 4	16	14	12 17	32	12	53
19	29 29	22 53	7 51	20 47	21	16	13 3	34	11	50
20	0♒30	24 8	8 8	5 ♑37	27	17	13 49	37	10	46
21	1 31	25 23	8 31	20 27	9 32	10 18	14 35	2 39	20 9	26 43
22	2 32	26 38	8 59	5 ♒ 9	37	18	15 21	41	7	40
23	3 34	27 54	9 35	19 37	41	18	16 6	43	6	37
24	4 35	29 9	10 14	3 ♓44	46	18	16 52	46	5	34
25	5 36	0♒25	11 0	17 28	52	R18	17 37	48	4	31
26	6 37	1 41	11 49	0 ♈47	56	18	18 23	50	3	27
27	7 37	2 58	12 42	13 41	10 2	17	19 9	52	2	24
28	8 38	4 13	13 38	26 14	10 7	10 17	19 55	2 54	20 1	26 21
29	9 39	5 30	14 38	8 ♉29	11	16	20 41	56	0	18
30	10 40	6 45	15 38	20 31	16	15	21 27	58	19 59	15
31	11 41	7 59	16 42	2 ♊24	10 20	10 13	22 13	3 0	19 58	26 12

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1898

Eclipse of Moon January 8th in ♋ 16° 17′

Declination of the Planets

D	S T	☉	♀	♂	☽	♃	♅	♄	♆	♇
		S	S	S	N	S	S	S	S	N
1	18 44	22 59	23 27	20 16	16 28	19 53	2 32	24 4	20 21	21 44
2	48	54	29	5	20 21	54	34	4	21	44
3	52	48	30	19 56	23 21	55	35	5	22	44
4	56	42	30	49	25 21	56	37	5	22	44
5	19 0	35	30	43	26 12	57	38	5	23	43
6	4	28	29	39	25 52	57	39	4	23	43
7	19 8	22 20	23 27	19 36	24 20	19 58	2 40	24 4	20 24	21 43
8	12	12	25	35	21 40	59	41	3	24	43
9	16	4	22	35	18 1	20 1	42	1	25	43
10	20	21 55	18	37	13 32	1	42	0	25	43
11	24	45	13	40	8 27	2	43	23 58	27	43
12	28	36	8	44	2 55	3	43	56	27	43
13	31	26	2	49	2 S49	4	44	54	28	43
14	19 35	21 15	22 55	19 55	8 33	20 5	2 44	23 52	20 28	21 43
15	39	4	48	20 2	14 1	6	45	49	29	43
16	43	20 53	40	9	18 53	6	45	46	29	43
17	47	41	31	17	22 48	7	46	42	30	43
18	51	29	22	25	25 22	8	46	39	30	43
19	55	16	11	34	26 15	9	47	35	31	43
20	59	3	0	42	25 15	9	47	31	31	43
21	20 3	19 50	21 49	20 51	22 29	20 10	2 47	23 27	20 32	21 42
22	7	36	37	59	18 15	10	47	22	32	42
23	11	22	24	21 7	13 0	11	46	17	32	42
24	15	8	10	15	7 11	12	46	12	32	42
25	19	18 53	20 56	21	1 11	13	46	7	33	42
26	23	38	42	28	4 N40	13	46	1	33	42
27	27	22	26	33	10 9	14	45	22 55	34	42
28	20 31	18 7	20 10	21 38	15 3	20 14	2 45	22 49	20 34	21 42
29	35	17 50	19 54	42	19 14	15	44	43	35	42
30	38	34	37	45	22 33	15	44	36	35	42
31	20 42	17 17	19 19	21 47	24 52	20 16	2 43	22 29	20 35	21 42

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1898

New Moon February 20th in ♓ 1° 54′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♒′	° ♒′	° ♑′	° ♑′	° ♐′	° ♑′	° ♑′	° ♑′	° ♊′	° ♑′
1	12 42	9 14	17 48	14 13	10 26	10R12	22 59	3 2	19R57	26 9
2	13 43	10 29	18 58	26 3	30	10	23 45	3	56	5
3	14 44	11 44	20 9	7 ♋58	35	8	24 30	5	55	2
4	15 44	12 59	21 21	20 1	39	6	25 16	7	54	25 59
5	16 45	14 14	22 34	2 ♌15	43	4	26 2	8	53	56
6	17 46	15 29	23 50	14 41	47	2	26 48	10	53	52
7	18 47	16 44	25 8	27 21	10 51	10 0	27 34	3 11	19 52	25 49
8	19 47	17 59	26 26	10♍16	55	9 57	28 20	13	51	46
9	20 48	19 14	27 45	23 25	59	54	29 7	15	51	43
10	21 49	20 29	29 7	6 ♎46	11 2	50	29 53	16	50	40
11	22 49	21 44	0♒30	20 20	6	47	0♒39	18	49	37
12	23 50	22 59	1 56	4 ♏ 6	10	44	1 26	19	49	33
13	24 51	24 14	3 23	18 1	14	40	2 13	21	48	30
14	25 51	25 30	4 51	2 ♐ 6	11 17	9 36	3 0	3 22	19 47	25 27
15	26 52	26 45	6 16	16 18	20	32	3 47	23	47	24
16	27 52	28 0	7 42	0 ♑37	23	28	4 34	24	47	21
17	28 53	29 15	9 13	14 58	27	24	5 21	25	46	18
18	29 53	0♓31	10 43	29 20	30	20	6 7	26	46	14
19	0♓54	1 46	12 13	13♒37	33	15	6 53	27	46	11
20	1 54	3 1	13 45	27 46	35	10	7 40	28	46	8
21	2 55	4 16	15 19	11♓40	11 38	9 5	8 26	3 29	19 46	25 5
22	3 55	5 31	16 52	25 16	41	0	9 13	29	45	2
23	4 56	6 46	18 26	8 ♈33	43	8 55	10 0	30	45	24 59
24	5 56	8 1	20 2	21 28	46	50	10 46	30	45	55
25	6 56	9 16	21 38	4 ♉ 4	49	44	11 33	31	45	52
26	7 56	10 31	23 17	16 21	51	38	12 19	31	45	49
27	8 57	11 46	24 58	28 24	54	32	13 5	32	45	46
28	9 57	13 1	26 36	10♊18	11 56	8 26	13 51	3 32	19 45	24 43

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1898

Full Moon February 6th in ♌ 17° 46′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	S	S	N	S	S	S	S	N
1	20 46	17 0	19 1	21 48	26 4	20 17	2 42	22 22	20 36	21 42
2	50	16 43	18 42	48	26 6	17	41	15	36	42
3	54	16 25	18 22	47	24 55	18	40	7	37	42
4	58	16 7	18 3	45	22 35	18	39	21 59	37	42
5	21 2	15 49	17 42	42	19 11	19	38	51	37	42
6	6	15 31	17 21	38	14 53	19	37	43	37	42
7	21 10	15 12	17 0	21 32	9 53	20 20	2 36	21 34	20 38	21 42
8	14	14 53	16 38	25	4 22	20	34	25	38	42
9	18	14 34	16 16	17	1 S24	21	33	16	38	42
10	22	14 15	15 53	8	7 13	21	31	7	38	42
11	26	13 55	15 30	20 57	12 46	21	30	20 58	39	42
12	30	13 35	15 6	46	17 46	21	28	48	39	42
13	34	13 15	14 42	32	21 53	22	27	38	39	42
14	21 38	12 54	14 18	20 18	24 46	20 22	2 25	20 28	20 39	21 42
15	42	12 34	13 53	2	26 7	23	23	17	40	42
16	46	12 13	13 28	19 45	25 44	23	21	7	40	42
17	49	11 52	13 2	27	23 39	24	20	19 56	40	42
18	53	11 31	12 36	8	20 3	24	18	45	40	42
19	57	11 10	12 10	18 47	15 17	24	16	33	41	42
20	22 1	10 48	11 43	25	9 43	24	13	22	41	42
21	22 5	10 26	11 16	18 1	3 47	20 25	2 11	19 10	20 41	21 42
22	9	10 4	10 49	17 36	2 N12	25	9	18 58	41	42
23	13	9 42	10 21	10	7 55	25	7	46	42	42
24	17	9 20	9 54	16 43	13 9	25	5	34	42	42
25	21	8 58	9 26	14	17 41	26	2	21	42	42
26	25	8 36	8 57	15 44	21 22	26	0	9	42	42
27	29	8 13	8 29	12	24 4	26	1 57	17 56	42	42
28	22 33	7 50	8 0	14 40	25 40	20 26	1 55	17 43	20 42	21 42

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1898

New Moon March 22nd in ♈ 1° 53′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♃	♆	☊
	° ♓′	° ♓′	° ♒′	° ♊′	° ♐′	° ♑′	° ♒′	° ♐′	° ♊′	° ♈″
1	10 57	14 16	28 17	22 8	11 57	8 R19	14 38	3 33	19 45	24 40
2	11 57	15 31	29 58	3 ♌58	59	13	15 25	33	45	36
3	12 57	16 46	1♓43	15 54	12 1	7	16 11	33	45	33
4	13 57	18 1	3 27	28 1	3	1	16 57	34	45	30
5	14 57	19 16	5 12	10♍22	5	7 55	17 43	34	45	27
6	15 57	20 30	6 59	23 1	7	48	18 30	34	46	23
7	16 57	21 45	8 47	5 ♎59	12 8	7 41	19 16	3 34	19 46	24 20
8	17 57	23 0	10 36	19 16	10	34	20 3	34	46	17
9	18 57	24 15	12 25	2 ♏51	11	27	20 50	34	46	14
10	19 57	25 30	14 16	16 40	12	21	21 37	R34	46	11
11	20 57	26 45	16 9	0 ♐40	13	14	22 24	34	47	8
12	21 57	28 0	18 2	14 46	14	7	23 12	34	47	4
13	22 57	29 15	19 56	28 56	14	6 59	23 58	34	47	1
14	23 56	0♈30	21 52	13♑ 6	12 15	6 51	24 44	3 33	19 47	23 58
15	24 56	1 45	23 48	27 14	16	44	25 31	33	48	55
16	25 56	2 59	25 46	11♒19	17	37	26 18	32	48	52
17	26 55	4 14	27 44	25 20	17	30	27 5	32	49	49
18	27 55	5 28	29 43	9 ♓16	18	22	27 52	31	50	45
19	28 55	6 43	1♈43	23 6	18	14	28 39	31	50	42
20	29 54	7 57	3 45	6 ♉48	18	6	29 25	30	51	39
21	0♈54	9 12	5 47	20 19	12 18	5 58	0♓12	3 30	19 52	23 36
22	1 53	10 27	7 49	3 ♈37	R18	50	0 59	29	53	33
23	2 53	11 42	9 50	16 40	18	43	1 45	28	54	30
24	3 52	12 57	11 50	29 27	18	35	2 32	27	54	27
25	4 52	14 11	13 50	11♉57	18	27	3 19	26	55	23
26	5 51	15 25	15 51	24 12	17	20	4 6	26	56	20
27	6 50	16 39	17 49	6 ♊14	17	12	4 52	25	57	17
28	7 50	17 53	19 48	18 8	12 16	5 4	5 39	3 24	19 58	23 14
29	8 49	19 7	21 42	29 57	15	4 57	6 26	23	59	11
30	9 48	20 21	23 33	11♋46	15	49	7 13	22	20 0	7
31	10 47	21 35	25 25	23 42	12 14	4 42	8 0	3 21	20 1	23 4

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1898

Full Moon March 8th in ♍ 17° 57′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		S	S	S	N	S	S	S	S	N
1	22 37	7 28	7 31	14 5	26 5	20 26	1 52	17 30	20 42	21 43
2	41	7 5	7 2	13 30	25 20	26	49	17 16	42	43
3	45	6 42	6 33	12 53	23 24	26	47	17 3	42	43
4	49	6 19	6 3	12 15	20 23	26	44	16 49	42	43
5	53	5 56	5 33	11 36	16 25	27	42	16 35	42	43
6	56	5 32	5 4	10 55	11 38	27	39	16 21	42	43
7	23 0	5 9	4 34	10 13	6 15	20 27	1 36	16 6	20 42	21 43
8	4	4 46	4 4	9 30	0 28	27	33	15 52	42	43
9	8	4 22	3 33	8 46	5 s27	27	30	15 37	42	43
10	12	3 59	3 3	8 0	11 12	27	27	15 23	42	43
11	16	3 35	2 33	7 13	16 27	27	25	15 8	42	43
12	20	3 12	2 2	6 25	20 51	27	22	14 53	42	43
13	24	2 48	1 32	5 36	24 4	27	19	14 37	42	44
14	23 28	2 24	1 1	4 45	25 46	20 27	1 16	14 22	20 42	21 44
15	32	2 1	0 31	3 54	25 48	27	13	14 6	42	44
16	36	1 37	0 N 0	3 1	24 10	27	10	13 51	42	44
17	40	1 13	0 31	2 8	21 3	27	7	13 35	42	44
18	44	0 50	1 1	1 14	16 44	27	4	13 19	42	44
19	48	0 26	1 32	0 18	11 33	27	1	13 3	42	44
20	52	0 2	2 3	0 N 375	52	27	0 57	12 47	42	44
21	23 56	0 N22	2 33	1 34	0 0	20 26	0 54	12 31	20 41	21 44
22	0 0	0 45	3 4	2 30	5 N46	26	51	12 14	41	44
23	3	1 9	3 34	3 27	11 10	26	48	11 58	41	44
24	7	1 33	4 5	4 24	15 58	26	45	11 41	41	44
25	11	1 56	4 35	5 21	19 59	26	42	11 24	41	45
26	15	2 20	5 5	6 18	23 3	26	39	11 7	41	45
27	19	2 43	5 35	7 14	25 2	25	36	10 50	41	45
28	0 23	3 7	6 5	8 9	25 51	20 25	0 33	10 33	20 41	21 45
29	27	3 30	6 35	9 3	25 29	25	30	10 16	40	45
30	31	3 53	7 5	9 56	23 58	25	27	9 59	40	45
31	0 35	4 17	7 34	10 48	21 21	20 24	0 24	9 42	20 40	21 45

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1898

New Moon April 20th in ♉ 0° 24′

Longitude of the Planets

D	☉	☿	♀	♂	☽	♃	♅	♄	♆	♇	☊
	° ♈′	° ♈′	° ♈′	° ♈′	° ♌′	° ♐′	° ♒′	° ♐′	° ♐′	° ♊′	° ♑′
1	11 47	22 50	27 13	5 49	12R13	4 R34	8 47	3 R20	20 2	23 1	
2	12 46	24 5	28 56	18 13	11	27	9 33	19	3	22 58	
3	13 45	25 20	0 ♉ 36	0 ♍ 58	10	19	10 19	17	4	55	
4	14 44	26 35	2 11	14 7	8	11	11 6	16	5	51	
5	15 43	27 49	3 44	27 39	7	3	11 53	15	6	48	
6	16 42	29 3	5 8	11♎35	5	3 55	12 40	13	7	45	
7	17 41	0 ♉ 18	6 30	25 49	12 4	3 48	13 27	3 12	20 8	22 42	
8	18 40	1 31	7 46	10♍17	2	41	14 14	10	9	39	
9	19 38	2 45	8 56	24 51	1	34	15 1	9	10	36	
10	20 37	3 59	10 0	9 ♐24	11 59	27	15 47	7	11	32	
11	21 36	5 13	10 59	23 51	57	20	16 34	5	13	29	
12	22 35	6 27	11 53	8 ♑ 8	55	13	17 21	4	14	26	
13	23 34	7 41	12 41	22 14	53	6	18 8	2	16	23	
14	24 32	8 55	13 22	6 ♒ 7	11 51	2 59	18 54	3 0	20 17	22 20	
15	25 31	10 9	13 56	19 48	48	52	19 40	2 58	19	17	
16	26 30	11 23	14 25	3 ♓18	46	45	20 26	56	20	13	
17	27 28	12 37	14 49	16 36	44	39	21 12	54	22	10	
18	28 27	13 51	15 5	29 44	41	33	21 59	52	23	7	
19	29 26	15 5	15 16	12 ♈40	38	27	22 46	50	25	4	
20	0 ♉ 24	16 19	15 20	25 24	36	21	23 32	48	26	1	
21	1 23	17 32	15R17	7 ♉ 56	11 33	2 15	24 19	2 46	20 28	21 58	
22	2 21	18 46	15 11	20 15	30	8	25 6	44	30	54	
23	3 20	20 0	15 0	2 ♊23	27	2	25 52	42	32	51	
24	4 18	21 14	14 41	14 21	24	1 56	26 38	40	34	48	
25	5 16	22 28	14 19	26 11	20	51	27 25	38	35	45	
26	6 15	23 42	13 53	7 ♋59	17	46	28 11	36	37	41	
27	7 13	24 56	13 24	19 47	14	41	28 58	34	38	38	
28	8 11	26 10	12 51	1 ♌42	11 11	1 36	29 44	2 32	20 40	21 35	
29	9 10	27 23	12 15	13 48	7	31	0 ♈31	30	41	32	
30	10 8	28 36	11 39	26 11	11 3	1 26	1 17	2 28	20 43	21 29	

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1898

Full Moon April 6th in ♎ 16° 42′

Declination of the Planets

D	S T	☉ N	☿ N	♀ N	♂ N	♃ N	♄ S	♅ S	♆ S	♇ S	♈ N
1	0 39	4 40	8 4	11 38	17 47	20 24	0 21	9 24	20 39	21 46	
2	43	5 3	8 33	12 26	13 22	24	18	9 7	39	46	
3	47	5 26	9 2	13 12	8 15	24	15	8 49	39	46	
4	51	5 49	9 31	13 55	2 39	24	12	8 32	39	46	
5	55	6 11	9 59	14 36	3 s13	23	9	8 14	38	46	
6	59	6 34	10 27	15 15	9 6	23	6	7 56	38	46	
7	1 3	6 57	10 56	15 51	14 38	20 22	0 3	7 38	20 38	21 46	
8	7	7 19	11 23	16 24	19 26	22	0	7 20	38	46	
9	11	7 41	11 51	16 54	23 6	22	N 3	7 2	37	47	
10	14	8 4	12 18	17 21	25 15	22	6	6 44	37	47	
11	18	8 26	12 45	17 45	25 42	21	8	6 26	37	47	
12	22	8 48	13 12	18 7	24 26	21	11	6 8	37	47	
13	26	9 9	13 38	18 25	21 37	20	13	5 50	36	47	
14	1 30	9 31	14 4	18 40	17 34	20 20	0 16	5 32	20 36	21 47	
15	34	9 53	14 30	18 52	12 40	20	19	5 13	35	47	
16	38	10 14	14 55	19 1	7 12	20	22	4 55	35	47	
17	42	10 35	15 20	19 7	1 31	19	24	4 37	35	48	
18	46	10 56	15 45	19 10	4 N 9	19	26	4 18	35	48	
19	50	11 17	16 9	19 10	9 33	18	28	4 0	34	48	
20	54	11 37	16 33	19 7	14 28	18	30	3 42	34	48	
21	1 58	11 58	16 56	19 0	18 42	20 17	0 33	3 23	20 33	21 48	
22	2 2	12 18	17 19	18 51	22 2	17	35	3 5	33	48	
23	6	12 38	17 41	18 39	24 20	16	37	2 46	32	49	
24	10	12 58	18 3	18 24	25 30	16	39	2 28	32	49	
25	14	13 17	18 25	18 7	25 29	15	41	2 9	32	49	
26	18	13 37	18 46	17 47	24 19	15	43	1 51	32	49	
27	21	13 56	19 7	17 25	22 3	14	45	1 32	31	49	
28	2 25	14 15	19 27	17 1	18 50	20 14	0 47	1 14	20 31	21 49	
29	29	14 34	19 46	16 35	14 46	13	49	0 55	30	49	
30	2 33	14 52	20 5	16 9	10 1	20 13	0 51	0 37	20 30	21 50	

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1898

New Moon May 20th in ♉ 29° 26′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♃	♆	♇
	° ♉ ′	° ♉ ′	° ♉ ′	° ♍ ′	° ♐ ′	° ♒ ′	° ♈ ′	° ♐ ′	° ♊ ′	° ♑ ′
1	11 6	29 49	11R 1	8 55	11R 0	1 R22	2 4	2 R26	20 45	21 26
2	12 4	1 ♊ 2	10 24	22 6	10 57	17	2 50	24	47	22
3	13 2	2 16	9 44	5 ♎44	53	13	3 36	21	49	19
4	14 0	3 30	9 7	19 50	50	9	4 22	19	51	16
5	14 58	4 43	8 33	4 ♏19	46	5	5 8	16	53	13
6	15 56	5 56	7 59	19 6	42	1	5 54	14	55	10
7	16 54	7 9	7 29	4 ♐ 2	10 38	0 58	6 40	2 11	20 57	21 7
8	17 52	8 23	7 0	18 59	34	54	7 26	9	59	3
9	18 50	9 36	6 36	3 ♑48	30	50	8 12	6	21 1	0
10	19 48	10 49	6 17	18 23	26	47	8 58	4	3	20 57
11	20 46	12 2	6 1	2 ♒40	21	44	9 44	1	5	54
12	21 44	13 15	5 49	16 38	17	41	10 30	1 59	7	51
13	22 42	14 28	5 41	0 ♓17	13	38	11 16	56	9	48
14	23 40	15 42	5 39	13 38	10 9	0 36	12 2	1 54	21 11	20 44
15	24 38	16 55	5 D41	26 43	5	34	12 47	52	13	41
16	25 35	18 8	5 47	9 ♈33	1	32	13 32	50	15	38
17	26 33	19 21	6 0	22 11	9 56	30	14 17	47	17	35
18	27 31	20 33	6 16	4 ♉37	52	28	15 3	45	19	32
19	28 29	21 46	6 35	16 53	48	26	15 49	42	21	29
20	29 26	22 59	6 59	29 0	44	25	16 34	40	23	25
21	0♊24	24 12	7 27	10♊58	9 39	0 24	17 20	1 37	21 25	20 22
22	1 22	25 26	8 1	22 51	35	23	18 5	35	27	19
23	2 19	26 39	8 39	4 ♋39	31	22	18 51	32	29	16
24	3 17	27 51	9 19	16 25	27	21	19 37	30	31	12
25	4 15	29 4	10 3	28 14	22	21	20 22	28	34	9
26	5 12	0♋17	10 51	10♌ 9	18	21	21 8	25	36	6
27	6 10	1 30	11 43	22 14	13	20	21 53	23	38	3
28	7 7	2 43	12 38	4 ♍36	9 9	0 20	22 38	1 20	21 40	20 0
29	8 5	3 56	13 38	17 18	4	D20	23 23	18	42	19 57
30	9 2	5 9	14 38	0 ♎25	0	21	24 8	15	44	53
31	10 0	6 21	15 42	14 0	8 56	0 21	24 53	1 13	21 46	19 50

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1898

Full Moon May 6th in ♏ 15° 56′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		N	N	N	N	S	N	S	S	N
1	2 37	15 10	20 24	15 41	4 42	20 12	0 52	0 18	20 29	21 50′
2	41	15 28	42	13	0 s58	12	54	0 0	29	50
3	45	15 46	59	14 44	6 46	11	55	0 N18	28	50
4	49	16 3	21 16	16	12 26	11	56	0 37	28	50
5	53	16 20	32	13 48	17 34	10	58	0 55	27	51
6	57	16 37	48	21	21 45	10	59	1 14	27	51
7	3 1	16 54	22 3	12 56	24 32	20 9	1 0	1 32	20 26	21 51
8	5	17 10	17	32	25 34	9	1	1 50	26	51
9	9	17 26	31	10	24 47	8	3	2 9	25	51
10	13	17 42	44	11 49	22 17	7	4	2 27	25	51
11	17	17 58	57	31	18 26	6	5	2 45	25	51
12	21	18 13	23 9	15	13 38	6	6	3 3	25	51
13	25	18 28	20	2	8 15	5	7	3 21	24	52
14	3 29	18 42	23 30	10 51	2 37	20 5	1 7	3 39	20 24	21 52
15	32	18 56	40	42	3 N 1	4	8	3 57	23	52
16	36	19 10	50	36	8 24	4	9	4 15	23	52
17	40	19 24	58	33	13 22	3	10	4 33	22	52
18	44	19 37	24 6	31	17 42	3	10	4 51	22	52
19	48	19 50	13	33	21 13	2	10	5 9	21	53
20	52	20 3	20	36	23 45	1	10	5 26	21	53
21	3 56	20 15	24 25	10 42	25 12	20 0	1 11	5 44	20 20	21 53
22	4 0	20 27	30	49	25 29	0	11	6 2	20	53
23	4	20 38	35	59	24 36	19 59	11	6 19	19	53
24	8	20 50	38	11 11	22 37	59	11	6 37	19	53
25	12	21 0	41	25	19 40	58	11	6 54	18	54
26	16	21 11	44	40	15 52	58	11	7 11	18	54
27	20	21 21	45	57	11 22	57	11	7 28	17	54
28	4 24	21 31	24 46	12 16	6 20	19 56	1 11	7 45	20 17	21 54
29	28	21 40	46	36	0 55	55	10	8 2	16	54
30	32	21 49	45	57	4 s42	55	10	8 19	16	54
31	4 36	21 58	24 44	13 20	10 17	19 54	1 10	8 36	20 15	21 54

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1898

New Moon June 19th in ♊ 28° 9′

Longitude of the Planets

D	☉	☿	♀	☽	♄	♅	♂	♃	♆	☊
	° ♊′	° ♋′	° ♉′	° ♏′	° ♐′	° ♏′	° ♈′	° ♐′	° ♊′	° ♑′
1	10 57	7 33	16 52	28 4	8 ℞51	0 22	25 38	1 ℞10	21 48	19 47
2	11 55	8 45	18 3	12♍34	47	23	26 23	7	51	44
3	12 52	9 58	19 17	27 26	42	24	27 7	5	53	41
4	13 50	11 11	20 34	12♐32	38	26	27 52	2	55	38
5	14 47	12 24	21 55	27 43	34	28	28 37	0 59	59	35
6	15 44	13 36	23 18	12♑50	30	29	29 21	57	22 0	31
7	16 42	14 48	24 44	27 42	8 25	0 31	0 ♉ 6	0 54	22 2	19 28
8	17 39	16 0	26 13	12♒16	21	33	0 50	52	4	25
9	18 36	17 12	27 46	26 26	16	36	1 34	50	6	22
10	19 34	18 24	29 21	10♓11	12	39	2 19	48	8	19
11	20 31	19 36	0♊57	23 34	8	41	3 3	46	11	16
12	21 28	20 48	2 35	6 ♈34	4	44	3 48	44	13	12
13	22 26	21 59	4 19	19 17	7 59	47	4 32	42	15	9
14	23 23	23 11	6 4	1 ♉44	7 54	0 50	5 16	0 40	22 17	19 6
15	24 20	24 23	7 53	13 58	50	53	6 1	38	20	3
16	25 18	25 35	9 43	26 2	46	56	6 46	36	22	18 59
17	26 15	26 47	11 38	7 ♊58	42	1 0	7 29	34	24	56
18	27 12	27 59	13 33	19 50	38	3	8 12	32	26	53
19	28 9	29 11	15 30	1 ♋38	34	7	8 56	29	29	50
20	29 7	0♌23	17 30	13 25	30	11	9 40	27	31	47
21	0 ♋ 4	1 36	19 33	25 13	7 26	1 15	10 24	0 25	22 33	18 44
22	1 1	2 48	21 37	7 ♌ 6	22	20	11 8	23	35	40
23	1 59	4 0	23 42	19 5	18	24	11 51	21	38	37
24	2 56	5 10	25 50	1 ♍15	14	29	12 34	19	40	34
25	3 53	6 22	28 0	13 39	10	34	13 18	17	42	31
26	4 50	7 33	0♋10	26 21	6	39	14 0	15	44	28
27	5 47	8 44	2 20	9 ♎25	♄	44	14 44	13	46	25
28	6 45	9 56	4 31	22 53	6 59	1 49	15 27	0 11	22 48	18 22
29	7 42	11 8	6 43	6 ♍48	56	54	16 10	9	50	19
30	8 39	12 19	8 54	21 8	6 53	2 0	16 53	0 7	22 52	18 15

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1898

Full Moon June 4th in ♐ 13° 50′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ S	♄ S	♃ N	♂ N	♅ S	♆ N
1	4 39	22 6	24 42	13 44	15 33	19 54	1 9	8 53	20 15	21 55
2	43	14	39	14 9	20 7	53	9	9 9	15	55
3	47	21	35	14 35	23 31	52	8	26	14	55
4	51	28	31	15 2	25 19	52	7	42	14	55
5	55	35	26	15 30	25 15	51	6	58	13	55
6	59	41	20	15 58	23 18	51	5	10 15	12	55
7	5 3	22 47	24 14	16 27	19 46	19 50	1 4	10 31	20 11	21 56
8	7	53	7	16 56	15 4	50	3	47	11	56
9	11	58	23 59	17 26	9 39	49	2	11 2	10	56
10	15	23 3	51	17 56	3 55	49	1	18	10	56
11	19	7	42	18 26	1 N49	48	0	34	9	56
12	23	11	32	18 56	7 19	48	0 59	49	9	56
13	27	14	21	19 26	12 23	47	57	12 4	8	57
14	5 31	23 17	23 10	19 55	16 51	19 46	0 56	12 20	20 8	21 57
15	35	20	22 58	20 24	20 32	45	54	35	7	57
16	39	22	46	20 52	23 17	45	52	50	7	57
17	43	24	33	21 19	24 58	44	51	13 4	6	57
18	46	25	19	21 46	25 31	44	49	19	6	57
19	50	26	5	22 11	24 54	43	47	34	6	58
20	54	27	21 50	22 34	23 10	43	45	48	6	58
21	5 58	23 27	21 35	22 56	20 25	19 42	0 44	14 2	20 5	21 58
22	6 2	27	19	23 16	16 48	42	42	16	5	58
23	6	26	2	23 33	12 29	41	40	30	4	58
24	10	25	20 45	23 49	7 38	41	37	44	4	58
25	14	24	27	24 2	2 23	40	35	58	3	58
26	18	22	9	24 13	3 S 4	40	33	15 11	3	58
27	22	20	19 50	24 21	8 32	40	31	24	2	59
28	6 26	23 17	19 31	24 26	13 47	19 40	0 29	15 38	20 2	21 59
29	30	14	11	24 28	18 21	39	26	51	1	59
30	6 34	23 10	18 51	24 28	22 19	19 38	0 24	16 3	20 1	21 59

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1898

Eclipse of Sun July 18th in ♋ 25° 49′

Longitude of the Planets

D	☉	☿	☿	☽	♄	♃	♂	♅	♆	♇
	° ♋′	° ♌′	° ♋′	° ♐′	° ♐′	° ♒′	° ♉′	° ♐′	° ♊′	° ♍′
1	9 36	13 30	11 5	5 52	6 R49	2 6	17 37	0 R 5	22 55	18 12
2	10 33	14 41	13 13	20 53	46	12	18 20	3	57	9
3	11 31	15 52	15 21	6 ♍ 3	43	18	19 3	2	59	6
4	12 28	17 2	17 28	21 14	40	24	19 45	0	23 1	2
5	13 25	18 13	19 35	6 ♒ 16	36	30	20 28	29♏59	4	17 59
6	14 22	19 23	21 39	21 1	33	36	21 11	57	6	56
7	15 19	20 34	23 42	5 ♓ 22	6 31	2 43	21 54	29 56	23 8	17 53
8	16 16	21 45	25 44	19 18	28	50	22 36	55	10	50
9	17 14	22 56	27 45	2 ♈ 47	25	56	23 19	53	12	47
10	18 11	24 7	29 44	15 51	22	3 4	24 1	52	14	43
11	19 8	25 18	1♌42	28 33	20	11	24 43	50	16	40
12	20 5	26 28	3 38	10 ♉ 56	18	19	25 26	49	18	37
13	21 3	27 38	5 30	23 4	15	25	26 9	48	20	34
14	22 0	28 48	7 21	5 ♊ 2	6 12	3 33	26 51	29 47	23 22	17 30
15	22 57	29 58	9 9	16 53	9	41	27 33	46	24	27
16	23 54	1 ♍ 9	10 56	28 40	7	48	28 14	45	26	24
17	24 52	2 19	12 42	10♋27	4	56	28 55	44	28	21
18	25 49	3 29	14 25	22 17	3 4	4	29 37	43	30	18
19	26 46	4 39	16 9	4 ♌11	1	12	0♊19	42	32	15
20	27 43	5 49	17 15	16 12	5 59	20	1 0	41	34	11
21	28 41	6 59	19 23	28 21	5 57	4 29	1 42	29 40	23 36	17 8
22	29 38	8 9	21 1	10♍42	55	38	2 22	39	38	5
23	0♌35	9 19	22 35	23 15	53	46	3 3	38	40	2
24	1 33	10 29	24 7	6 ♎ 4	52	54	3 44	37	42	16 59
25	2 30	11 38	25 38	19 10	51	5 3	4 26	36	44	56
26	3 27	12 48	27 7	2 ♏ 35	49	12	5 7	36	46	52
27	4 25	13 57	28 33	16 21	48	21	5 48	35	48	49
28	5 22	15 6	29 58	0 ♐ 28	5 47	5 31	6 29	29 35	23 49	16 46
29	6 19	16 15	1♍22	14 55	46	40	7 9	34	51	43
30	7 17	17 24	2 43	29 39	45	49	7 50	34	53	40
31	8 14	18 33	4 2	14♑35	5 44	5 58	8 30	29 34	23 54	16 37

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1898

Eclipse of Moon July 3rd in ♑ 11° 31′

Declination of the Planets

D	S T	☉ N	♀ N	☿ N	☽ S	♄ S	♅ N	♂ N	♃ S	♆ N
1	6 38	23 6	18 30	24 24	24 47	19 38	0 21	16 16	20 1	21 59
2	42	2	18 9	24 18	25 32	38	18	29	1	59
3	46	22 57	17 47	24 9	24 23	37	16	41	0	59
4	50	52	17 25	23 58	21 27	37	13	53	0	59
5	54	47	17 2	23 44	17 5	36	11	17 5	0	59
6	57	41	16 39	23 28	11 44	36	8	17	0	59
7	7 1	22 34	16 16	23 9	5 54	19 36	0 5	17 29	19 59	21 59
8	5	28	15 52	22 49	0 N 3	36	2	40	59	59
9	9	20	15 27	22 26	5 48	35	S 0	52	59	59
10	13	13	15 3	22 1	11 7	35	3	18 3	59	59
11	17	5	14 38	21 35	15 49	35	6	14	58	22 0
12	21	21 57	14 12	21 8	19 44	35	10	24	58	0
13	25	48	13 47	20 38	22 44	34	13	35	57	0
14	7 29	21 39	13 21	20 8	24 41	19 34	0 16	18 46	19 57	22 0
15	33	30	12 54	19 36	25 31	34	19	56	57	0
16	37	20	12 28	19 4	25 11	34	22	19 6	57	0
17	41	10	12 1	18 30	23 43	33	25	16	56	0
18	45	0	11 33	17 56	21 12	33	29	25	56	0
19	49	20 49	11 6	17 21	17 46	33	32	35	56	0
20	53	38	10 38	16 45	13 35	33	35	44	56	0
21	7 57	20 26	10 10	16 8	8 49	19 33	0 39	19 53	19 56	22 1
22	8 1	14	9 42	15 32	3 39	33	43	20 2	56	1
23	4	2	9 13	14 54	1 S 44	33	46	11	55	1
24	8	19 50	8 45	14 17	7 9	33	50	20	55	1
25	12	37	8 16	13 39	12 23	33	53	28	55	1
26	16	23 7	7 47	13 1	17 9	33	57	36	55	1
27	20	10	7 17	12 24	21 10	33	1 1	44	55	1
28	8 24	18 56	6 48	11 46	24 3	19 33	1 4	20 52	19 55	22 1
29	28	42	6 18	11 8	25 26	33	8	21 0	55	1
30	32	28	5 49	10 30	25 5	33	12	7	55	1
31	8 36	18 13	5 19	9 53	22 56	19 33	1 16	21 15	19 55	22 1

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1898

New Moon August 17th in ♌ 24° 33'

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♌ ′	° ♍ ′	° ♍ ′	° ♑ ′	° ♐ ′	° ♐ ′	° ♓ ′	° ♏ ′	° ♊ ′	° ♑ ′
1	9 12	19 42	5 21	29 35	5 R43	6 8	9 11	29R33	23 56	16 33
2	10 9	20 51	6 34	14♒32	42	17	9 51	33	58	30
3	11 6	22 1	7 47	29 16	41	27	10 32	32	59	27
4	12 4	23 10	8 59	13♓42	40	37	11 12	32	24 1	24
5	13 1	24 18	10 7	27 43	40	47	11 52	32	2	21
6	13 59	25 26	11 13	11♈19	40	56	12 32	32	4	17
7	14 56	26 34	12 17	24 27	5 39	7 6	13 12	29 32	24 6	16 14
8	15 54	27 42	13 16	7 ♉12	39	16	13 51	32	8	11
9	16 51	28 50	14 15	19 35	39	26	14 30	D32	9	8
10	17 49	29 58	15 9	1 ♊43	39	37	15 10	32	11	5
11	18 47	1 ♎ 6	16 0	13 38	D39	47	15 50	32	12	2
12	19 44	2 14	16 51	25 27	39	58	16 29	33	13	15 58
13	20 42	3 22	17 36	7 ♋14	40	8 9	17 7	33	14	55
14	21 40	4 30	18 18	19 3	5 40	8 20	17 47	29 33	24 16	15 52
15	22 37	5 38	18 58	0 ♌58	41	30	18 26	34	17	49
16	23 35	6 46	19 30	13 1	41	40	19 6	34	19	46
17	24 33	7 53	20 0	25 14	42	51	19 45	35	20	43
18	25 31	9 0	20 28	7 ♍39	43	9 2	20 23	35	21	39
19	26 28	10 6	20 48	20 16	44	13	21 1	36	23	36
20	27 26	11 12	21 4	3 ♎ 6	46	24	21 38	37	24	33
21	28 24	12 19	21 15	16 10	5 47	9 35	22 16	29 37	24 25	15 30
22	29 22	13 25	21 23	29 27	48	47	22 54	38	26	27
23	0♍20	14 32	21 22	12♍58	49	59	23 32	39	27	24
24	1 18	15 37	21R18	26 42	51	10 10	24 9	39	28	20
25	2 15	16 43	21 10	10 ♐40	52	21	24 47	40	29	17
26	3 13	17 49	20 50	24 52	53	32	25 26	41	31	14
27	4 11	18 55	20 26	9 ♑16	54	44	26 4	42	32	11
28	5 9	20 1	19 58	23 49	5 56	10 55	26 41	29 43	24 33	15 7
29	6 7	21 6	19 24	8 ♒27	58	11 6	27 17	45	34	4
30	7 5	22 11	18 43	23 5	6 0	18	27 54	46	35	1
31	8 3	23 16	17 58	7 ♓35	6 2	11 30	28 32	29 47	24 36	14 58

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1898

Full Moon August 2nd in ♒ 10° 9′

Full Moon August 31st in ♌ 8° 3′

Declination of the Planets

D	S T	☉	☿	♀	☽	♄	♃	♂	♅	♆
		N	N	N	S	S	S	N	S	N
1	8 40	17 58	4 49	9 16	19 11	19 33	1 20	21 22	19 55	22 1
2	44	17 43	4 19	8 39	14 12	33	24	29	55	1
3	48	17 27	3 48	8 2	8 28	33	28	35	55	1
4	52	17 11	3 18	7 26	2 23	33	32	42	55	1
5	56	16 55	2 48	6 51	3 N37	33	36	48	55	1
6	9 0	16 38	2 17	6 16	9 16	33	40	54	55	1
7	9 4	16 22	1 47	5 42	14 19	19 34	1 44	22 0	19 55	22 1
8	8	16 5	1 16	5 9	18 35	34	48	6	55	1
9	12	15 47	0 46	4 37	21 54	34	52	11	55	2
10	15	15 30	0 15	4 5	24 11	34	57	17	55	2
11	19	15 12	0 s16	3 35	25 21	35	2 1	22	55	2
12	23	14 54	0 46	3 6	25 20	35	5	27	55	2
13	27	14 36	1 17	2 38	24 11	35	9	32	55	2
14	9 31	14 17	1 48	2 12	21 57	19 35	2 14	22 36	19 55	22 2
15	35	13 59	2 18	1 47	18 46	36	18	40	55	2
16	39	13 40	2 49	1 23	14 46	36	23	45	55	2
17	43	13 21	3 19	1 2	10 7	36	27	49	55	2
18	47	13 1	3 50	0 42	5 0	36	31	53	55	2
19	51	12 42	4 20	0 25	0 s23	37	36	56	56	2
20	55	12 22	4 51	0 10	5 50	37	41	23 0	56	2
21	9 59	12 2	5 21	0 s 3	11 7	19 38	2 45	23 3	19 56	22 2
22	10 3	11 42	5 51	0 13	15 59	38	50	6	56	2
23	7	11 22	6 21	0 20	20 9	39	54	9	56	2
24	11	11 1	6 51	0 25	23 17	39	59	12	56	2
25	15	10 40	7 21	0 26	25 4	40	3 3	14	57	2
26	19	10 20	7 50	0 24	25 17	40	8	17	57	2
27	22	9 59	8 20	0 18	23 48	41	12	19	57	2
28	10 26	9 37	8 49	0 9	20 44	19 41	3 17	23 21	19 57	22 2
29	30	9 16	9 18	0 N 4	16 19	42	21	23	57	2
30	34	8 55	9 47	0 21	10 57	42	26	25	57	2
31	10 38	8 33	10 16	0 41	5 2	19 43	3 31	23 26	19 58	22 2

Simplified Scientific

Ephemeris of the Planets' Places

Calculated for Mean Noon at Greenwich

September, 1898

New Moon September 16th in ♍ 23° 37′

Longitude of the Planets

D	☉	☿	☿	☽	♄	♅	♂	♃	♆	♇
	° ♍′	° ♎′	° ♍′	° ♐′	° ♑′	° ♎′	° ♊′	° ♍′	° ♊′	° ♈′
1	9 2	24 20	17R 6	21 52	6 6	11 42	29 9	29 48	24 37	14 55
2	10 0	25 25	16 13	5 ♈ 50	8	54	29 46	49	38	52
3	10 58	26 29	15 16	19 24	10	12 6	0 ♋ 23	50	39	49
4	11 56	27 33	14 18	2 ♉ 34	12	18	0 59	51	40	45
5	12 54	28 37	13 19	15 20	14	30	1 35	52	41	42
6	13 52	29 41	12 21	27 45	17	42	2 11	54	41	39
7	14 51	0 ♏ 44	11 24	9 ♊ 53	6 20	12 54	2 47	29 55	24 42	14 36
8	15 49	1 47	10 31	21 48	23	13 6	3 23	57	42	33
9	16 47	2 49	9 43	3 ♋ 38	26	18	3 59	58	43	30
10	17 46	3 52	9 1	15 25	29	31	4 33	0 ♐ 0	43	26
11	18 44	4 54	8 26	27 17	32	43	5 9	2	44	23
12	19 43	5 55	7 58	9 ♌ 16	35	55	5 44	4	44	20
13	20 41	6 56	7 39	21 28	38	14 7	6 19	6	45	17
14	21 40	7 57	7 30	3 ♍ 54	6 41	14 19	6 54	0 8	24 45	14 14
15	22 38	8 58	7 29	16 36	44	32	7 31	10	46	11
16	23 37	9 59	7 D 39	29 34	48	45	8 6	12	46	7
17	24 35	11 0	7 58	12 ♎ 47	52	57	8 41	14	47	4
18	25 34	12 0	8 26	26 13	55	15 10	9 14	16	47	1
19	26 33	13 0	9 4	9 ♍ 50	59	23	9 48	18	47	13 58
20	27 31	13 59	9 47	23 37	7 3	36	10 21	20	48	54
21	28 30	14 59	10 40	7 ♐ 30	7 7	15 49	10 55	0 22	24 48	13 51
22	29 29	15 57	11 40	21 30	11	16 2	11 28	24	48	48
23	0 ♎ 28	16 56	12 49	5 ♑ 34	15	15	12 2	26	48	45
24	1 26	17 54	14 3	19 43	19	28	12 35	29	48	42
25	2 25	18 52	15 23	3 ♒ 56	23	41	13 8	31	48	39
26	3 24	19 48	16 49	18 10	27	54	13 40	34	48	35
27	4 23	20 45	18 18	2 ♓ 22	31	17 6	14 13	36	48	32
28	5 22	21 41	19 51	16 28	7 35	17 18	14 46	0 39	24 48	13 29
29	6 21	22 36	21 27	0 ♈ 24	41	30	15 18	42	R48	26
30	7 20	23 31	23 6	14 6	7 45	17 43	15 50	0 44	24 48	13 23

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1898

Full Moon September 29th in ♈ 6° 21′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♅	♁	♆	♇
		N	S	N	N	S	S	N	S	N
1	10 42	8 11	10 45	1 4	1 3	19 44	3 35	23 28	19 58	22 2
2	46	7 49	11 13	1 31	6 55	44	40	29	58	2
3	50	7 27	11 42	2 0	12 18	45	45	30	58	2
4	54	7 5	12 10	2 32	16 58	45	50	31	58	2
5	58	6 43	12 37	3 6	20 42	46	54	32	59	2
6	11 2	6 21	13 5	3 41	23 23	46	59	32	59	2
7	11 6	5 58	13 32	4 16	24 55	19 47	4 4	23 33	20 0	22 2
8	10	5 36	13 59	4 52	25 17	48	9	33	0	2
9	14	5 13	14 26	5 26	24 29	49	14	33	0	2
10	18	4 50	14 52	5 59	22 36	49	19	33	0	2
11	22	4 27	15 18	6 31	19 43	50	23	33	1	2
12	26	4 4	15 44	6 59	15 59	51	28	33	1	2
13	30	3 41	16 10	7 24	11 33	52	33	32	2	2
14	11 33	3 18	16 35	7 46	6 34	19 52	4 38	23 32	20 2	22 2
15	37	2 55	17 0	8 4	1 13	53	43	31	3	2
16	41	2 32	17 24	8 18	4 s17	54	48	30	3	2
17	45	2 9	17 48	8 27	9 41	55	53	29	4	2
18	49	1 46	18 12	8 32	14 43	55	58	28	4	2
19	53	1 22	18 35	8 32	19 6	56	5 2	27	5	2
20	57	0 59	18 58	8 29	22 29	57	7	26	5	2
21	12 1	0 36	19 21	8 20	24 35	19 58	5 12	23 24	20 6	22 2
22	5	0 12	19 43	8 8	25 9	59	17	23	6	2
23	9	0 s11	20 5	7 52	24 7	20 0	22	21	7	2
24	13	0 35	20 27	7 32	21 33	0	27	19	7	2
25	17	0 58	20 48	7 8	17 39	1	32	18	8	2
26	21	1 21	21 8	6 41	12 44	2	37	16	8	2
27	25	1 45	21 29	6 12	7 9	3	42	14	9	2
28	12 29	2 8	21 48	5 39	1 15	20 4	5 47	23 11	20 9	22 2
29	33	2 31	22 8	5 4	4 N38	5	52	9	10	1
30	12 37	2 55	22 26	4 28	10 10	20 6	5 57	23 7	20 11	22 1

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1897

New Moon October 15th in ♎ 22° 9′.

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	⚷
	° ♎′	° ♏′	° ♏′	° ♈′	° ♑′	° ♎′	° ♋′	° ♑′	° ♊′	° ♍′
1	8 19	24 26	24 46	27 29	7 50	17 56	16 22	0 46	24R48	13 20
2	9 18	25 19	26 29	10 ♉ 32	55	18 9	16 53	48	48	16
3	10 17	26 12	28 13	23 14	59	22	17 24	50	47	13
4	11 16	27 4	29 59	5 ♊ 38	8 4	35	17 55	53	47	10
5	12 15	27 56	1♎ 45	17 45	9	48	18 26	56	47	7
6	13 15	28 48	3 30	29 41	13	19 1	18 57	59	47	4
7	14 14	29 40	5 16	11♋ 30	8 18	19 14	19 28	1 2	24 46	13 1
8	15 13	0 ♐ 31	7 2	23 18	23	27	19 58	5	46	12 57
9	16 12	1 20	8 48	5 ♌ 10	28	40	20 28	8	45	54
10	17 12	2 8	10 32	17 13	34	53	20 58	11	45	51
11	18 11	2 56	12 18	29 29	39	20 6	21 27	14	44	48
12	19 11	3 44	14 4	12♍ 4	45	19	21 56	17	44	45
13	20 10	4 30	15 47	24 59	51	33	22 25	19	43	42
14	21 10	5 15	17 31	8 ♎ 15	8 56	20 46	22 53	1 22	24 43	12 38
15	22 9	5 58	19 16	21 50	9 2	59	23 22	25	42	35
16	23 9	6 41	20 58	5 ♏ 41	8	21 12	23 50	28	42	32
17	24 8	7 25	22 41	19 45	14	25	24 17	31	41	29
18	25 8	8 7	24 22	3 ♐ 56	19	38	24 44	34	41	25
19	26 8	8 49	26 3	18 10	25	51	25 11	37	40	22
20	27 7	9 28	27 43	2 ♑ 24	30	22 4	25 37	40	40	19
21	28 7	10 6	29 24	16 34	9 36	22 17	26 4	1 43	24 39	12 16
22	29 7	10 43	1 ♏ 2	0 ♒ 40	42	30	26 31	46	38	13
23	0 ♏ 7	11 18	2 43	14 41	48	43	26 57	50	37	10
24	1 7	11 51	4 18	28 37	54	56	27 23	54	36	6
25	2 6	12 24	5 57	12 ♓ 25	59	23 9	27 48	57	36	3
26	3 6	12 56	7 34	26 5	10 5	22	28 12	2 0	35	0
27	4 6	13 27	9 10	9 ♈ 36	11	35	28 37	4	34	11 57
28	5 6	13 55	10 47	22 54	10 18	23 48	29 2	2 7	24 33	11 54
29	6 6	14 21	12 21	5 ♉ 57	24	24 1	29 26	10	32	51
30	7 6	14 46	13 56	18 45	31	14	29 50	14	31	47
31	8 6	15 10	15 31	1 ♊ 18	10 38	24 27	0♌ 13	2 17	24 30	11 44

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1898

Full Moon October 29th in ♉ 6° 6′

Declination of the Planets

D	S T	☉ S	♀ S	♂ N	☽ N	♄ S	♅ S	♆ N	♇ S	♈ N
1	12 40	3 18	22 45	3 49	15 7	20 7	6 2	23 4	20 11	22 1
2	44	3 41	23 3	3 9	19 14	8	7	2	11	1
3	48	4 5	20	2 28	22 19	9	12	22 59	12	1
4	52	4 28	37	1 45	24 17	10	17	57	12	1
5	56	4 51	53	1 2	25 2	11	22	54	13	1
6	13 0	5 14	24 9	0 18	24 37	12	27	51	13	1
7	13 4	5 37	24 25	0 s 27	23 5	20 13	6 32	22 48	20 14	22 1
8	8	6 0	40	1 12	20 33	13	37	45	14	1
9	12	6 23	54	1 57	17 8	14	41	42	15	1
10	16	6 46	25 8	2 42	12 59	15	46	39	16	1
11	20	7 8	21	3 28	8 14	16	51	36	17	1
12	24	7 31	34	4 13	3 3	17	56	33	17	1
13	28	7 53	47	4 58	2 s24	18	7 1	30	18	1
14	13 32	8 16	25 59	5 43	7 52	20 19	7 6	22 27	20 18	22 1
15	36	8 38	26 10	6 27	13 5	20	11	23	19	1
16	40	9 0	21	7 11	17 45	21	16	20	20	1
17	44	9 22	31	7 55	21 30	22	21	17	21	1
18	47	9 44	41	8 38	23 59	23	26	14	21	1
19	51	10 6	50	9 21	24 56	24	30	10	22	0
20	55	10 27	58	10 3	24 14	25	35	7	23	0
21	13 59	10 49	27 6	10 45	21 59	20 26	7 40	22 4	20 24	22 0
22	14 3	11 10	14	11 25	18 24	27	45	0	24	0
23	7	11 31	21	12 6	13 47	28	50	21 57	25	0
24	11	11 52	27	12 45	8 29	29	55	54	25	0
25	15	12 13	33	13 24	2 49	31	59	50	26	0
26	19	12 33	38	14 3	2 N55	32	8 4	47	26	0
27	23	12 54	42	14 40	8 26	33	9	44	27	0
28	14 27	13 14	27 46	15 17	13 29	20 34	8 14	21 41	20 28	22 0
29	31	13 34	50	15 53	17 49	35	18	37	29	0
30	35	13 54	53	16 28	21 14	36	23	34	29	0
31	14 39	14 13	27 55	17 2	23 34	20 37	8 28	21 31	20 30	22 0

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1898

New Moon November 14th in ♏ 22° 10'

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♏′	° ♐′	° ♏′	° ♑′	° ♐′	° ♐′	° ♓′	° ♑′	° ♐′	° ♈′
1	9 6	15 31	17 5	13 35	10 44	24 40	0 36	2 21	24R28	11 41
2	10 6	15 50	18 37	25 39	51	53	0 59	24	27	38
3	11 6	16 8	20 12	7 ♋33	57	25 6	1 21	28	26	35
4	12 7	16 24	21 44	19 21	11 4	18	1 44	31	25	31
5	13 7	16 38	23 19	1 ♌ 8	10	31	2 6	35	24	28
6	14 7	16 50	24 49	13 0	17	43	2 27	38	23	25
7	15 7	16 59	26 22	25 1	11 23	25 56	2 48	2 42	24 22	11 22
8	16 7	17 6	27 52	7 ♍18	31	26 9	3 8	45	21	19
9	17 8	17 13	29 25	19 54	38	22	3 28	49	19	16
10	18 8	17 15	0 ♐ 56	2 ♎53	44	34	3 47	52	18	12
11	19 9	17 15	2 26	16 17	51	46	4 5	56	17	9
12	20 9	17R13	3 55	0 ♏ 6	57	58	4 24	3 0	16	6
13	21 9	17 9	5 24	14 17	12 4	27 11	4 43	4	14	3
14	22 10	17 2	6 53	28 44	12 10	27 23	5 0	3 7	24 13	11 0
15	23 10	16 52	8 21	13 ♐22	17	35	5 16	11	11	10 57
16	24 11	16 40	9 50	28 2	24	47	5 31	15	9	53
17	25 12	16 26	11 19	12♑40	31	28 0	5 46	18	8	50
18	26 12	16 10	12 46	27 9	37	13	6 0	22	6	47
19	27 13	15 51	14 13	11♒26	44	25	6 13	25	5	44
20	28 13	15 30	15 39	25 30	51	37	6 26	29	3	41
21	29 14	15 6	17 3	9 ♓19	12 57	28 50	6 39	3 33	24 2	10 38
22	0 ♐ 15	14 40	18 28	22 54	13 4	29 2	6 51	36	0	34
23	1 15	14 12	19 52	6 ♈14	11	14	7 3	40	23 59	31
24	2 16	13 44	21 15	19 22	18	27	7 14	44	58	28
25	3 17	13 13	22 37	2 ♉16	25	38	7 24	48	56	25
26	4 17	12 42	23 58	14 58	32	50	7 34	52	55	22
27	5 18	12 8	25 17	27 28	39	0 ♏ 2	7 44	56	53	19
28	6 19	11 33	26 34	9 ♊45	13 46	0 13	7 53	4 0	23 51	10 15
29	7 20	10 56	27 51	21 52	53	24	8 1	4	50	12
30	8 21	10 19	29 4	3 ♋50	14 1	0 35	8 9	4 8	23 48	10 9

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1898

Full Moon November 28th in ♊ 6° 19′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♃	♂	♅	♆
		S	S	S	N	S	S	N	S	N
1	14 43	14 32	27 57	17 35	24 43	20 38	8 32	21 28	20 31	22 0
2	47	14 51	58	18 8	24 40	39	37	25	32	0
3	51	15 10	58	18 39	23 29	40	42	22	33	0
4	55	15 29	58	19 10	21 15	41	47	19	33	0
5	58	15 47	57	19 40	18 8	42	51	16	34	21 59
6	15 2	16 5	55	20 9	14 15	43	56	13	34	59
7	15 6	16 23	27 53	20 36	9 47	20 44	9 0	21 11	20 35	21 59
8	10	16 40	50	21 3	4 50	45	5	8	35	59
9	14	16 58	46	21 29	0 S25	46	9	5	36	59
10	18	17 15	41	21 54	5 49	47	14	3	36	59
11	22	17 31	36	22 17	11 6	48	18	1	37	59
12	26	17 48	30	22 40	16 0	49	23	20 58	38	59
13	30	18 4	23	23 1	20 10	50	27	56	39	59
14	15 34	18 19	27 15	23 22	23 10	20 51	9 32	20 54	20 39	21 59
15	38	18 35	7	23 41	24 40	52	36	52	40	59
16	42	18 50	26 58	23 59	24 27	53	41	51	41	59
17	46	19 5	47	24 15	22 33	54	45	49	42	58
18	50	19 19	36	24 31	19 11	55	49	48	42	58
19	54	19 33	24	24 45	14 43	56	53	46	43	58
20	58	19 47	11	24 58	9 30	57	58	45	44	58
21	16 2	20 0	25 58	25 9	3 55	20 58	10 2	20 44	20 45	21 58
22	5	20 13	43	25 19	1 N45	58	6	43	45	58
23	9	20 25	27	25 28	7 14	59	10	42	46	58
24	13	20 38	11	25 35	12 18	21 0	14	42	47	58
25	17	20 49	24 54	25 41	16 44	1	18	41	48	58
26	21	21 1	36	25 46	20 21	2	22	41	48	58
27	25	21 12	17	25 49	22 57	3	26	41	49	58
28	16 29	21 23	23 58	25 51	24 26	21 4	10 31	20 41	20 50	21 58
29	33	21 33	38	25 51	24 43	5	35	42	51	57
30	16 37	21 43	23 18	25 50	23 51	21 6	10 38	20 42	20 52	21 57

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1898

Eclipse of Sun December 13th in ♐ 21° 33′

Longitude of the Planets

D	☉	☿	♂	♃	♄	♅	♆	♇	♈
	° ♐′	° ♐′	° ♑′	° ♌′	° ♐′	° ♏′	° ♐′	° ♊′	° ♑′
1	9 21	9 R44	0 15	15 41	14 8	0 46	8 16	4 11	23R46	10 6
2	10 22	9 9	1 22	27 29	16 58	21	15	45	3
3	11 23	8 32	2 27	9 ♎16	23	1 10	26	18	43	0
4	12 24	7 54	3 28	21 7	30	22	30	22	42	9 56
5	13 25	7 20	4 25	3 ♍ 7	36	34	33	25	40	53
6	14 26	6 44	5 17	15 20	44	45	36	29	38	50
7	15 27	6 13	6 3	27 52	14 50	1 56	8 39	4 33	23 36	9 47
8	16 28	5 41	6 42	10♏47	57	2 7	40	36	34	43
9	17 29	5 10	7 14	24 8	15 4	17	41	40	33	40
10	18 30	4 42	7 38	7 ♍56	11	28	41	44	31	37
11	19 31	4 16	7 52	22 11	18	38	R40	48	29	34
12	20 32	3 51	7 58	6 ♐49	25	50	38	51	27	31
13	21 33	3 28	7 R52	21 43	32	3 1	36	55	26	28
14	22 34	3 8	7 35	6 ♑46	15 39	3 12	8 33	4 59	23 24	9 24
15	23 35	2 52	7 6	21 49	47	22	29	5 2	23	21
16	24 36	2 36	6 26	6 ♒42	55	32	24	6	21	18
17	25 37	2 24	5 33	21 21	16 3	42	17	9	19	16
18	26 38	2 15	4 32	5 ♓39	9	53	10	12	17	12
19	27 40	2 6	3 22	19 35	15 4	3	4	15	16	9
20	28 41	2 0	2 5	3 ♈10	23	13	7 55	19	14	5
21	29 42	1 58	0 44	16 23	16 31	4 23	7 45	5 22	23 13	9 2
22	0♑43	1 57	29♐20	29 17	37	32	34	25	11	8 59
23	1 44	1 D59	27 58	11 ♉55	45	42	23	28	9	56
24	2 45	2 4	26 41	24 19	51	51	11	31	8	53
25	3 46	2 10	25 31	6 ♊32	58	5 1	6 59	35	6	50
26	4 47	2 19	24 26	18 36	17 5	11	46	38	4	46
27	5 48	2 30	23 30	0 ♋32	12	20	32	42	3	43
28	6 50	2 44	22 50	12 24	17 18	5 30	6 17	5 45	23 1	8 40
29	7 51	2 59	22 15	24 13	26	39	1	49	22 59	37
30	8 52	3 16	21 52	6 ♌ 0	32	48	5 44	52	58	33
31	9 53	3 36	21 40	17 50	17 39	5 56	5 27	5 55	22 56	8 30

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1898

Eclipse of Moon December 27th in ♋ 5° 48′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♃	♁	♅	♆
		S	S	S	N	S	S	N	S	N
1	16 41	21 52	22 58	25 48	21 54	21 7	10 42	20 43	20 51	21 57
2	45	22 1	37	44	19 1	8	46	44	52	57
3	49	10	16	38	15 22	9	50	45	53	57
4	53	18	21 55	32	11 7	9	54	46	53	57
5	57	25	33	24	6 23	10	58	48	54	57
6	17 1	33	13	14	1 20	11	11 2	49	55	57
7	17 5	22 40	20 52	25 4	3 s54	21 12	11 5	20 51	20 56	21 57
8	9	46	32	24 52	9 6	13	9	54	56	57
9	13	52	12	40	14 5	14	13	56	57	57
10	16	57	19 53	26	18 30	14	17	59	58	57
11	20	23 2	34	12	22 1	15	20	21 2	59	57
12	24	7	16	23 56	24 12	16	24	5	21 0	57
13	28	11	18 59	41	24 44	17	27	8	0	56
14	17 32	23 15	18 43	23 24	23 27	21 18	11 31	21 11	21 0	21 56
15	36	18	28	7	20 29	19	34	15	1	56
16	40	21	13	22 50	16 11	19	38	19	1	56
17	44	23	0	32	10 59	20	41	23	2	56
18	48	25	17 48	15	5 19	21	44	28	3	56
19	52	26	36	21 57	0 N29	22	47	32	4	56
20	56	27	26	40	6 5	22	51	37	4	56
21	18 0	23 27	17 17	21 23	11 17	21 23	11 54	21 42	21 5	21 56
22	4	27	8	7	15 51	23	57	47	5	56
23	8	26	1	20 52	19 38	24	12 0	53	6	56
24	12	25	16 55	39	22 27	25	3	58	6	56
25	16	24	49	28	24 11	26	6	22 4	7	56
26	20	22	45	19	24 46	26	9	10	8	56
27	23	19	41	12	24 12	27	12	16	9	55
28	18 27	23 17	16 39	20 8	22 31	21 28	12 15	22 22	21 9	21 55
29	31	13	37	6	19 52	29	18	28	10	55
30	35	9	35	7	16 25	29	21	35	10	55
31	18 39	23 5	16 35	20 8	12 18	21 30	12 24	22 41	21 11	21 55

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TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	35	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	66 98	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5692	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	29
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3395	16

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	82
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	10	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	56	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06
59	68	46	46	65	02	53	18	95	83	81	88	03

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1899

Eclipse of Sun January 11th in ♑ 21° 6′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♑′	° ♐′	° ♐′	° ♌′	° ♌′	° ♐′	° ♏′	° ♌′	° ♊′	° ♑′
1	10 54	3 58	21 38	29 44	17 45	6 4	5 R11	5 58	22R54	8 27
2	11 55	4 21	21 44	11♍46	51	12	4 52	6 1	52	24
3	12 56	4 46	21 58	23 59	58	21	4 33	5	51	21
4	13 58	5 13	22 20	6 ♎28	18 4	29	4 13	8	49	18
5	14 59	5 42	22 49	19 16	11	37	3 53	11	48	15
6	16 0	6 13	23 24	2 ♏28	18	45	3 32	14	46	11
7	17 1	6 45	24 5	16 5	18 24	6 53	3 11	6 17	22 45	8 8
8	18 2	7 19	24 50	0 ♐10	31	7 1	2 49	20	43	5
9	19 3	7 53	25 40	14 40	37	9	2 27	23	42	2
10	20 5	8 29	26 34	29 33	44	16	2 5	26	40	7 59
11	21 6	9 7	27 32	14♑41	50	24	1 42	29	39	56
12	22 7	9 46	28 33	29 56	57	31	1 18	31	38	52
13	23 8	10 25	29 37	15♒ 7	19 3	38	0 55	34	36	49
14	24 9	11 6	0♑43	0 ♓ 6	19 9	7 45	0 31	6 37	22 35	7 46
15	25 10	11 49	1 52	14 43	15	52	0 7	40	33	43
16	26 11	12 33	3 2	28 55	21	59	29♋43	42	32	40
17	27 13	13 17	4 15	12 ♈39	27	8 5	19	45	31	37
18	28 14	14 2	5 29	25 56	33	12	28 55	48	29	33
19	29 15	14 48	6 45	8 ♉48	39	18	28 31	50	28	30
20	0♒16	15 36	8 3	21 20	45	24	28 7	53	26	27
21	1 17	16 24	9 22	3 ♊35	19 51	8 30	27 43	6 56	22 25	7 24
22	2 18	17 13	10 42	15 38	57	36	27 19	58	24	20
23	3 19	18 3	12 3	27 32	20 3	42	26 55	7 0	23	17
24	4 20	18 54	13 25	9 ♋22	9	47	26 32	3	22	14
25	5 21	19 45	14 48	21 9	14	53	26 9	5	21	11
26	6 22	20 37	16 13	2 ♌57	20	58	25 47	7	19	8
27	7 23	21 29	17 38	14 48	26	9 3	25 25	10	18	5
28	8 24	22 23	19 4	26 44	20 31	9 8	25 3	7 12	22 17	7 1
29	9 24	23 17	20 31	8 ♍46	37	12	24 42	14	16	6 58
30	10 25	24 12	21 58	20 56	42	17	24 22	17	15	55
31	11 26	25 7	23 27	3 ♎16	20 48	9 21	24 2	7 19	22 14	6 52

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1899

Full Moon January 26th in ♌ 6° 22′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		S	S	S	N	S	S	N	S	N
1	18 43	23 0	16 35	20 13	7 42	21 30	12 26	22 48	21 12	21 55
2	47	22 55	37	19	2 47	31	29	54	12	55
3	51	49	38	26	2 s19	32	32	23 1	13	55
4	55	43	40	35	7 26	32	35	8	13	55
5	59	37	43	44	12 22	33	37	15	14	55
6	19 3	30	47	54	16 53	33	40	22	14	55
7	19 7	22 22	16 50	21 5	20 41	21 34	12 42	23 28	21 15	21 55
8	11	14	55	16	23 25	34	44	35	15	55
9	15	6	59	26	24 43	35	46	42	16	55
10	19	21 57	17 4	37	24 17	35	49	49	16	55
11	23	48	9	48	22 5	36	51	55	17	55
12	27	38	15	58	18 18	36	53	24 2	17	55
13	31	28	21	22 8	13 18	37	55	8	18	54
14	19 34	21 18	17 27	22 17	7 34	21 37	12 58	24 15	21 18	21 54
15	38	7	33	26	1 34	38	13 0	21	19	54
16	42	20 55	40	34	4 N20	38	2	27	19	54
17	46	44	46	41	9 50	39	3	33	20	54
18	50	32	53	47	14 42	39	5	39	20	54
19	54	19	59	52	18 45	40	7	45	21	54
20	58	6	18 6	57	21 50	40	9	50	21	54
21	20 2	19 53	18 13	23 0	23 51	21 41	13 11	24 55	21 22	21 54
22	6	39	20	2	24 43	41	13	25 0	22	54
23	10	25	26	3	24 26	42	14	5	22	54
24	14	11	33	3	23 3	42	16	10	22	54
25	18	18 56	40	2	20 39	42	17	14	23	54
26	22	41	46	0	17 24	42	19	18	23	54
27	26	26	52	22 56	13 26	43	20	22	24	54
28	20 30	18 10	18 58	22 51	8 56	21 43	13 22	25 26	21 24	21 54
29	34	17 54	19 4	45	4 5	44	23	30	25	54
30	38	38	10	38	0 s58	44	24	33	25	54
31	20 41	17 21	19 16	22 30	6 3	21 44	13 25	25 36	21 25	21 54

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1899

New Moon February 10th in ♒ 21° 34'

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♒′	° ♑′	° ♑′	° ♏′	° ♑′	° ♏′	° ♌′	° ♐′	° ♊′	° ♑′
1	12 27	26 3	24 57	15 49	20 53	9 26	23R42	7 21	22R13	6 49
2	13 28	26 59	26 27	28 38	58	30	23	23	12	46
3	14 29	27 56	27 58	11♏43	21 3	34	4	25	11	43
4	15 30	28 54	29 30	25 10	8	38	22 46	26	10	39
5	16 30	29 52	1 ♒ 3	9 ♐ 0	13	41	29	28	9	36
6	17 31	0♑50	2 36	23 13	18	44	13	30	8	32
7	18 32	1 49	4 10	7 ♑50	21 23	9 47	21 57	7 32	22 8	6 31
8	19 33	2 49	5 45	22 45	28	50	42	33	7	27
9	20 34	3 49	7 21	7 ♒52	32	53	27	35	6	23
10	21 34	4 49	8 58	23 2	37	55	14	37	6	20
11	22 35	5 49	10 35	8 ♓ 6	42	58	1	38	5	17
12	23 36	6 50	12 13	22 53	46	10 0	20 49	40	4	14
13	24 36	7 51	13 53	7 ♈16	51	2	38	41	4	11
14	25 37	8 53	15 32	21 11	21 55	10 4	20 28	7 43	22 3	6 7
15	26 37	9 55	17 13	4 ♉37	22 0	6	18	44	3	4
16	27 38	10 58	18 55	17 34	4	7	9	46	2	1
17	28 39	12 0	20 38	0 ♊ 8	8	9	1	47	1	5 58
18	29 39	13 3	22 21	12 22	12	10	19 54	48	1	55
19	0♓39	14 6	24 6	24 23	16	10	48	50	0	52
20	1 40	15 10	25 51	6 ♋14	20	11	42	51	0	48
21	2 40	16 14	27 38	18 0	22 23	10 12	19 37	7 52	22 0	5 45
22	3 41	17 18	29 25	29 47	27	12	33	53	21 59	42
23	4 41	18 22	1♓13	11♌38	31	12	30	53	59	39
24	5 41	19 26	3 3	23 34	34	12	28	54	59	36
25	6 42	20 31	4 53	5 ♍39	38	12	26	55	59	33
26	7 42	21 36	6 44	17 53	41	R12	25	55	59	29
27	8 42	22 41	8 36	0 ♎17	44	11	25	56	59	26
28	9 42	23 47	10 29	12 52	22 48	10 11	19D26	7 57	21 59	5 23

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1899

Full Moon February 25th in ♍ 6° 42′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♆	♇
		S	S	S	S	S	S	N	S	N
1	20 45	17 4	19 21	22 20	10 59	21 45	13 26	25 39	21 26	21 54
2	49	16 47	26	22 9	15 32	45	27	41	26	54
3	53	16 30	31	21 56	19 28	45	28	44	27	54
4	57	16 12	35	21 42	22 30	45	29	46	27	54
5	21 1	15 54	39	21 27	24 18	46	30	47	28	54
6	5	15 35	43	21 11	24 36	46	31	49	28	54
7	21 9	15 17	19 47	20 53	23 14	21 47	13 32	25 51	21 28	21 54
8	13	14 58	50	20 33	20 14	47	32	52	28	54
9	17	14 39	52	20 13	15 49	47	33	53	28	54
10	21	14 19	55	19 51	10 23	47	34	54	28	54
11	25	13 59	57	19 27	4 23	48	35	54	29	54
12	29	13 40	58	19 2	1 N44	48	35	55	29	54
13	33	13 20	59	18 36	7 36	48	36	55	29	54
14	21 37	12 59	20 0	18 9	12 54	21 48	13 36	25 55	21 29	21 54
15	41	12 39	19 59	17 40	17 22	48	36	55	30	54
16	45	12 18	59	17 9	20 51	48	36	55	30	54
17	48	11 57	58	16 37	23 14	49	37	54	30	54
18	52	11 36	58	16 4	24 27	49	37	53	30	54
19	56	11 15	57	15 29	24 29	49	37	53	31	54
20	22 0	10 53	55	14 53	23 24	49	37	52	31	54
21	22 4	10 31	19 52	14 16	21 18	21 49	13 37	25 51	21 31	21 54
22	8	10 10	49	13 37	18 17	49	37	49	31	54
23	12	9 48	46	12 57	14 32	50	37	48	31	54
24	16	9 26	42	12 15	10 11	50	37	47	31	54
25	20	9 3	37	11 32	5 25	50	37	45	32	54
26	24	8 41	32	10 48	0 23	50	36	43	32	54
27	28	8 19	27	10 2	4 S43	50	36	41	32	54
28	22 32	7 56	19 21	9 15	9 42	21 50	13 35	25 40	21 32	21 54

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1899

New Moon March 11th in ♓ 20° 43′

Longitude of the Planets

D	☉	☿	☽	♄	♅	♂	♆	♇	☊
	° ♓′	° ♍′	° ♓′	° ♏′	° ♑′	° ♌′	° ♑′	° ♊′	° ♍′
1	10 42	24 52	12 23	25 38	22 51	10R10	19 28	7 58	21R59	5 20
2	11 43	25 58	14 17	8 ♎36	54	8	30	59	59	17
3	12 43	27 4	16 13	21 48	57	7	32	59	59	14
4	13 43	28 11	18 8	5 ♐14	23 0	5	35	8 0	59	10
5	14 43	29 17	20 5	18 56	3	4	39	0	22D 0	7
6	15 43	0♒24	22 2	2 ♑55	5	2	44	1	0	4
7	16 43	1 31	23 58	17 13	23 8	10 0	19 49	8 1	22 0	5 1
8	17 43	2 38	25 55	1 ♒46	11	9 58	55	1	0	4 57
9	18 43	3 45	27 52	16 32	13	55	20 2	1	0	54
10	19 43	4 52	29 48	1 ♓23	15	52	9	2	0	51
11	20 43	6 0	1 ♈43	16 13	17	50	17	2	0	48
12	21 43	7 7	3 37	0 ♈52	19	47	26	2	0	45
13	22 42	8 15	5 30	15 12	21	44	35	2	0	42
14	23 42	9 23	7 20	29 8	23 23	9 41	20 45	8 R 2	22 1	4 38
15	24 42	10 31	9 8	12♉38	25	37	55	2	1	35
16	25 42	11 39	10 53	25 40	27	34	21 6	2	2	32
17	26 41	12 47	12 35	8 ♊18	28	30	17	1	2	29
18	27 41	13 55	14 13	20 35	30	26	29	1	3	26
19	28 41	15 3	15 46	2 ♋37	31	21	42	1	3	23
20	29 40	16 12	17 15	14 29	33	17	55	1	4	19
21	0♈40	17 21	18 39	26 17	23 34	9 12	22 9	8 0	22 4	4 16
22	1 39	18 30	19 57	8 ♌ 5	35	7	23	0	5	13
23	2 39	19 39	21 9	19 59	36	3	37	7 59	6	10
24	3 38	20 48	22 14	2 ♍ 2	37	8 58	52	58	6	7
25	4 38	21 57	23 14	14 16	38	53	23 8	58	7	4
26	5 37	23 6	24 6	26 43	39	48	24	57	8	0
27	6 36	24 15	24 51	9 ♎24	39	42	40	56	8	3 57
28	7 36	25 25	25 30	22 18	23 40	8 37	23 57	7 55	22 9	3 54
29	8 35	26 34	26 0	5 ♍25	40	31	24 14	54	10	51
30	9 34	27 44	26 24	18 43	40	25	31	54	11	48
31	10 33	28 53	26 40	2 ♐11	23 41	8 19	24 49	7 53	22 12	3 45

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1899

Full Moon March 27th in ♎ 6° 36′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♃	♂	♅	♆
		S	S	S	S	S	S	N	S	N
1	22 36	7 33	19 14	8 27	14 21	21 50	13 35	25 37	21 32	21 54
2	40	7 10	7	7 38	18 25	50	35	35	32	54
3	44	6 47	18 59	6 48	21 38	50	34	33	32	54
4	48	6 24	51	5 56	23 44	50	33	31	32	54
5	52	6 1	42	5 4	24 28	51	32	28	33	55
6	56	5 38	33	4 10	23 41	51	32	26	33	55
7	22 59	5 15	18 24	3 16	21 21	21 51	13 31	25 23	21 33	21 55
8	23 3	4 51	13	2 21	17 37	51	30	20	33	55
9	7	4 28	3	1 26	12 45	51	29	17	33	55
10	11	4 4	17 52	0 31	7 6	51	28	14	33	55
11	15	3 41	40	0 N25	1 4	51	27	11	33	55
12	19	3 17	28	1 21	4 N56	51	26	8	33	55
13	23	2 54	15	2 16	10 33	51	25	5	33	55
14	23 27	2 30	17 2	3 11	15 28	21 51	13 24	25 2	21 33	21 55
15	31	2 6	16 48	4 5	19 26	51	22	24 58	33	55
16	35	1 43	34	4 57	22 17	51	21	55	33	55
17	39	1 19	19	5 49	23 55	51	20	51	33	55
18	43	0 55	4	6 39	24 21	51	19	47	33	55
19	47	0 31	15 49	7 27	23 36	51	17	44	32	55
20	51	0 8	33	8 12	21 48	51	16	40	32	55
21	23 55	0 N16	15 16	8 56	19 4	21 51	13 14	24 36	21 32	21 56
22	59	0 40	14 59	9 37	15 34	51	13	32	32	56
23	0 3	1 3	42	10 15	11 25	51	11	28	32	56
24	6	1 27	24	10 49	6 48	51	9	23	32	56
25	10	1 51	6	11 21	1 51	51	7	19	32	56
26	14	2 14	13 47	11 49	3 S15	51	6	15	32	56
27	18	2 38	28	12 14	8 18	51	4	10	32	56
28	0 22	3 1	13 9	12 36	13 5	21 51	13 2	24 5	21 32	21 56
29	26	3 24	12 49	12 53	17 20	51	0	1	32	57
30	30	3 48	29	13 7	20 47	51	12 58	23 56	32	57
31	0 34	4 11	12 8	13 17	23 8	21 50	12 56	23 51	21 32	21 57

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1899

New Moon April 10th in ♈ 20° 23′

Longitude of the Planets

☽	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♈′	° ♓′	° ♈′	° ♑′	° ♑′	° ♏′	° ♑′	° ♑′	° ♊′	° ♑′
1	11 32	0 3	26 49	15 49	23 41	8 ℞13	25 8	7 ℞52	22 13	3 41
2	12 31	1 13	26 51	29 36	41	7	25 27	51	14	38
3	13 31	2 23	26℞46	13♑33	41	1	25 46	50	15	35
4	14 30	3 33	26 34	27 40	℞41	7 54	26 5	49	17	32
5	15 29	4 43	26 16	11♒56	40	48	26 24	47	18	29
6	16 28	5 53	25 52	26 ♑19	40	41	26 44	46	19	25
7	17 27	7 3	25 23	10♓45	23 40	7 34	27 5	7 45	22 20	3 22
8	18 26	8 13	24 50	25 9	39	28	27 27	44	21	19
9	19 25	9 24	24 13	9 ♈25	39	21	27 48	42	22	16
10	20 23	10 34	23 32	23 27	38	14	28 10	41	23	13
11	21 22	11 44	22 50	7 ♉10	37	7	28 31	40	25	10
12	22 21	12 55	22 5	20 32	36	0	28 53	38	26	7
13	23 20	14 5	21 21	3 ♊31	35	6 53	29 16	36	27	3
14	24 19	15 16	20 36	16 8	23 34	6 45	29 39	7 35	22 29	3 0
15	25 17	16 27	19 53	28 27	33	38	0 ♌ 2	33	30	2 57
16	26 16	17 38	19 12	10♋30	31	31	0 25	32	32	54
17	27 15	18 48	18 33	22 24	30	23	0 49	30	33	51
18	28 13	19 59	17 57	4 ♌14	28	16	1 13	28	34	47
19	29 12	21 9	17 25	16 4	27	8	1 37	27	36	44
20	0 ♉10	22 20	16 56	28 1	25	1	2 1	25	37	41
21	1 9	23 31	16 33	10♍ 7	23 23	5 53	2 26	7 23	22 39	2 38
22	2 7	24 42	16 13	22 29	21	45	2 51	22	41	34
23	3 6	25 53	15 59	5 ♎ 6	19	38	3 16	20	42	31
24	4 4	27 4	15 50	18 2	17	30	3 41	18	44	28
25	5 2	28 15	15 45	1 ♏14	15	23	4 7	16	45	25
26	6 1	29 26	15℞46	14 43	13	15	4 33	14	47	22
27	6 59	0 ♈37	15 51	28 25	11	7	4 59	12	48	19
28	7 57	1 49	16 1	12 ♐17	23 8	5 0	5 25	7 10	22 50	2 15
29	8 56	3 0	16 16	26 17	6	4 52	5 51	8	52	12
30	9 54	4 11	16 36	10♑23	23 3	4 44	6 18	7 6	22 53	2 9

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1899

Full Moon April 25th in ♏ 5° 2′

Declination of the Planets

D	S T	☉ N	♀ S	♂ N	☽ S	♄ S	♃ S	♂ N	♅ S	♆ N
1	0 38	4 34	11 47	13 22	24 11	21 50	12 54	23 46	21 31	21 57
2	42	4 57	11 26	13 24	23 45	50	52	41	31	57
3	46	5 20	11 5	13 23	21 50	50	50	36	31	57
4	50	5 43	10 43	13 17	18 34	50	47	31	31	57
5	54	6 6	10 20	13 7	14 10	50	45	26	31	57
6	58	6 29	9 58	12 54	8 56	50	43	20	31	57
7	1 2	6 51	9 35	12 38	3 13	21 50	12 41	23 15	21 30	21 57
8	6	7 14	9 12	12 18	2 N39	50	38	9	30	57
9	10	7 36	8 48	11 55	8 19	50	36	3	30	57
10	14	7 58	8 25	11 30	13 28	50	34	22 57	30	57
11	17	8 21	8 1	11 3	17 48	49	32	51	29	58
12	21	8 43	7 36	10 34	21 7	49	30	45	29	58
13	25	9 4	7 12	10 4	23 13	49	27	39	29	58
14	1 29	9 26	6 47	9 33	24 5	21 49	12 25	22 33	21 29	21 58
15	33	9 48	6 22	9 2	23 44	49	22	27	28	58
16	37	10 9	5 57	8 31	22 15	49	19	20	28	58
17	41	10 30	5 32	8 1	19 48	49	17	14	28	58
18	45	10 51	5 6	7 32	16 33	49	15	7	28	58
19	49	11 12	4 41	7 4	12 37	48	12	0	27	59
20	53	11 32	4 15	6 38	8 11	48	9	21 54	27	59
21	1 57	11 53	3 49	6 13	3 23	21 48	12 7	21 47	21 27	21 59
22	2 1	12 13	3 23	5 51	1 S37	48	5	40	27	59
23	5	12 33	2 56	5 32	6 41	48	2	32	26	59
24	9	12 53	2 30	5 15	11 34	48	11 59	25	26	59
25	13	13 13	2 3	5 0	16 1	48	57	18	26	59
26	17	13 32	1 37	4 48	19 46	48	55	10	26	59
27	21	13 51	1 10	4 39	22 29	47	52	3	25	22 0
28	2 24	14 10	0 43	4 32	23 53	21 47	11 50	20 55	21 25	22 0
29	28	14 29	0 16	4 27	23 47	47	48	47	25	0
30	2 32	14 48	0 N11	4 26	22 10	21 47	11 45	20 40	21 25	22 0

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1899

New Moon May 9th in ♉ 18° 37′

Longitude of the Planets

D	☉	♀	☿	☽	♄	♅	♂	♆	♃	♇
	° ♉ ′	° ♈ ′	° ♈ ′	° ♍ ′	° ♐ ′	° ♏ ′	° ♌ ′	° ♐ ′	° ♊ ′	° ♍ ′
1	10 52	5 22	17 0	24 31	23R 1	4 R36	6 45	7 R 4	22 55	2 6
2	11 50	6 34	17 28	8 ♒40	22 58	29	7 12	2	57	3
3	12 48	7 45	18 1	22 49	55	21	7 39	6 59	59	0
4	13 46	8 57	18 37	6 ♓57	52	14	8 7	57	23 1	1 56
5	14 45	10 8	19 17	21 1	49	6	8 34	55	2	53
6	15 43	11 20	20 1	4 ♈59	46	3 59	9 2	52	4	50
7	16 41	12 31	20 49	18 48	22 43	3 51	9 30	6 50	23 6	1 47
8	17 39	13 43	21 40	2 ♉24	40	44	9 59	48	8	44
9	18 37	14 54	22 34	15 45	37	37	10 27	46	10	41
10	19 35	16 6	23 31	28 49	34	30	10 56	43	12	37
11	20 33	17 17	24 32	11♊36	30	23	11 25	41	14	34
12	21 31	18 29	25 35	24 5	27	16	11 54	39	16	31
13	22 28	19 41	26 42	6 ♋20	24	9	12 23	37	18	28
14	23 26	20 52	27 51	18 22	22 20	3 2	12 52	6 34	23 20	1 25
15	24 24	22 4	29 3	0 ♌16	16	2 55	13 22	32	22	22
16	25 22	23 16	0 ♉17	12 6	12	49	13 51	29	24	18
17	26 20	24 28	1 34	23 57	9	42	14 21	27	26	15
18	27 18	25 39	2 53	5 ♍55	5	36	14 50	25	28	12
19	28 15	26 51	4 15	18 3	1	29	15 20	22	30	9
20	29 13	28 3	5 40	0 ♎26	21 57	23	15 50	19	32	6
21	0♊11	29 15	7 7	13 8	21 53	2 17	16 21	6 17	23 34	1 3
22	1 8	0 ♉27	8 36	26 12	49	11	16 51	14	36	0 59
23	2 6	1 39	10 8	9 ♍36	45	5	17 22	12	38	56
24	3 4	2 51	11 42	23 22	41	0	17 52	9	40	53
25	4 1	4 3	13 18	7 ♐26	37 1	54	18 23	7	42	50
26	4 59	5 15	14 57	21 43	33	49	18 54	4	44	46
27	5 56	6 27	16 38	6 ♑10	29	43	19 25	2	46	43
28	6 54	7 39	18 21	20 40	21 25	1 38	19 56	5 59	23 49	0 40
29	7 51	8 51	20 7	5 ♒ 9	21	33	20 27	57	51	37
30	8 49	10 3	21 55	19 33	17	28	20 59	54	53	33
31	9 46	11 15	23 46	3 ♓48	21 12	1 23	21 31	5 52	23 55	0 30

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1899

Full Moon May 25th in ♐ 4° 1′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♃	♂	♅	♆
		N	N	N	S	S	S	N	S	N
1	2 36	15 6	0 38	4 26	19 10	21 47	11 43	20 32	21 24	22 0
2	40	15 24	1 5	4 30	15 2	47	40	23	24	0
3	44	15 42	1 32	4 35	10 4	46	38	15	23	0
4	48	15 59	1 59	4 43	4 35	46	35	7	23	0
5	52	16 16	2 26	4 52	1 N 6	46	33	19 58	22	1
6	56	16 33	2 53	5 4	6 41	46	30	50	22	1
7	3 0	16 50	3 20	5 18	11 52	21 45	11 28	19 41	21 22	22 1
8	4	17 6	3 48	5 34	16 24	45	25	33	22	1
9	8	17 23	4 15	5 52	20 1	45	23	24	21	1
10	12	17 38	4 42	6 11	22 31	45	21	15	21	1
11	16	17 54	5 8	6 32	23 48	45	19	6	20	1
12	20	18 9	5 35	6 54	23 51	45	17	18 57	20	1
13	24	18 24	6 2	7 18	22 43	44	14	47	19	2
14	3 28	18 39	6 29	7 43	20 33	21 44	11 12	18 38	21 19	22 2
15	31	18 53	6 55	8 10	17 32	44	10	28	18	2
16	35	19 7	7 22	8 38	13 48	44	8	19	18	2
17	39	19 21	7 48	9 7	9 33	43	6	9	17	2
18	43	19 34	8 14	9 38	4 55	43	4	17 59	17	2
19	47	19 47	8 40	10 9	0 2	43	2	49	17	2
20	51	20 0	9 6	10 41	4 S57	43	0	39	17	2
21	3 55	20 12	9 32	11 14	9 52	21 42	10 58	17 29	21 16	22 3
22	59	20 24	9 57	11 48	14 28	42	56	19	16	3
23	4 3	20 36	10 23	12 23	18 30	42	54	9	15	3
24	7	20 47	10 48	12 58	21 37	42	52	16 58	15	3
25	11	20 58	11 13	13 34	23 31	42	51	48	14	3
26	15	21 8	11 37	14 10	23 54	42	50	37	14	3
27	19	21 19	12 2	14 47	22 42	41	48	26	13	3
28	4 23	21 28	12 26	15 24	19 59	21 41	10 46	16 16	21 13	22 3
29	27	21 38	12 50	16 1	16 1	41	44	5	12	4
30	31	21 47	13 14	16 39	11 8	41	43	15 54	12	4
31	4 35	21 56	13 37	17 16	5 42	21 40	10 42	15 43	21 12	22 4

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1899

Eclipse of Sun June 8th in II 17° 26'

Longitude of the Planets

D	☉	♀	☿	☽	♄	♅	♂	♆	♃	☊
	° II′	° ♉′	° ♉′	° ♓′	° ♐′	° ♏′	° ♑′	° ♐′	° II′	° ♈′
1	10 44	12 27	25 38	17 52	21R 8	1 R19	22 2	5 R50	23 57	0 28
2	11 41	13 39	27 33	1 ♈44	4	14	22 34	47	24 0	24
3	12 39	14 51	29 30	15 22	20 59	10	23 6	45	2	21
4	13 36	16 4	1 II 30	28 48	55	6	23 38	43	4	18
5	14 33	17 16	3 31	11 ♉59	51	2	24 10	40	6	15
6	15 31	18 28	5 34	24 55	46	0 59	24 42	38	8	11
7	16 28	19 40	7 39	7 II 39	20 42	0 55	25 15	5 35	24 10	0 8
8	17 26	20 53	9 46	20 8	37	52	25 47	33	13	5
9	18 23	22 5	11 54	2 ♋26	33	48	26 20	31	15	2
10	19 20	23 17	14 3	14 32	28	45	26 52	28	17	29 59
11	20 18	24 30	16 14	26 30	24	42	27 25	26	20	♪ 56
12	21 15	25 42	18 25	8 ♌22	19	39	27 58	24	22	52
13	22 12	26 55	20 37	20 12	15	37	28 31	21	24	49
14	23 10	28 7	22 49	2 ♍ 3	20 11	0 34	29 4	5 19	24 27	29 46
15	24 7	29 20	25 1	14 0	6	32	29 38	17	29	43
16	25 4	0 Ω 32	27 12	26 7	2	30	0 ♍11	14	31	40
17	26 2	1 45	29 23	8 ♎29	19 58	28	0 44	12	33	37
18	26 59	2 57	1 ♋33	21 10	53	25	1 17	10	36	33
19	27 56	4 10	3 42	4 ♏13	49	25	1 51	7	38	30
20	28 53	5 22	5 50	17 41	44	23	2 25	5	40	27
21	29 51	6 35	7 57	1 ♐33	19 40	0 22	2 59	5 3	24 42	29 24
22	0 ♋48	7 47	10 2	15 48	36	21	3 33	0	44	21
23	1 45	9 0	12 5	0 ♑25	31	20	4 7	4 58	47	18
24	2 42	10 12	14 6	15 14	27	20	4 41	56	49	14
25	3 39	11 25	16 5	0 ♒ 9	23	19	5 15	54	51	11
26	4 37	12 37	18 3	15 2	19	19	5 49	52	53	8
27	5 34	13 50	19 58	29 47	15	19	6 23	50	56	5
28	6 31	15 3	21 52	14 ♓16	19 10	0 D19	6 57	4 48	24 58	29 2
29	7 28	16 16	23 43	28 27	6	19	7 32	46	25 0	28 59
30	8 25	17 29	25 32	12 ♈17	19 2	0 20	8 6	4 44	25 2	28 55

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1899

Eclipse of Moon June 23rd in ♈ 1° 45′

Declination of the Planets

D.	S T	☉ N	♀ N	☿ N	☽ S	♄ S	♅ S	♂ N	♃ S	♆ N
1	4 39	22 4	14 0	17 53	0 3	21 40	10 40	15 31	21 11	22 4
2	42	12	23	18 29	5 N30	40	39	20	11	4
3	46	20	45	19 5	10 43	39	38	9	10	4
4	50	27	15 7	19 40	15 20	39	37	14 57	10	4
5	54	34	29	20 15	19 8	39	35	46	9	5
6	58	40	50	20 48	21 55	39	34	34	9	5
7	5 2	22 46	16 12	21 20	23 32	21 38	10 33	14 22	21 9	22 5
8	6	52	32	21 50	23 56	38	32	10	9	5
9	10	57	52	22 19	23 9	38	31	13 58	8	5
10	14	23 1	17 12	22 46	21 17	38	31	46	8	5
11	18	6	32	23 11	18 30	37	30	34	7	5
12	22	10	51	23 33	14 58	37	29	22	7	5
13	26	13	18 9	23 53	10 52	37	28	9	6	6
14	5 30	23 17	18 27	24 11	6 21	21 37	10 28	12 57	21 6	22 6
15	34	19	45	24 25	1 35	36	27	44	5	6
16	38	22	19 2	24 37	3 S18	36	27	32	5	6
17	42	24	19	24 47	8 10	36	26	19	4	6
18	46	25	35	24 53	12 49	36	26	6	4	6
19	49	26	51	24 57	17 1	35	26	11 54	4	6
20	53	27	20 6	24 57	20 30	35	26	41	4	6
21	5 57	23 27	20 20	24 56	22 55	21 35	10 25	11 28	21 3	22 6
22	6 1	27	35	24 51	23 57	35	25	15	3	6
23	5	26	48	24 44	23 22	35	25	1	2	7
24	9	25	21 1	24 34	21 9	35	25	10 48	2	7
25	13	24	14	24 22	17 29	34	25	35	1	7
26	17	22	25	24 8	12 43	34	25	21	1	7
27	21	20	37	23 52	7 15	34	26	8	1	7
28	6 25	23 17	21 47	23 34	1 29	21 34	10 26	9 5	21 1	22 7
29	29	14	58	23 14	4 N14	33	26	41	0	7
30	6 33	23 11	22 7	22 53	9 36	21 33	10 27	9 27	21 0	22 7

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1899

New Moon July 7th in ♋ 15° 6′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♋′	° ♊′	° ♋′	° ♈′	° ♑′	° ♐′	° ♏′	° ♐′	° ♊′	° ♐′
1	9 23	18 41	27 19	25 47	18R58	0 20	8 41	4 R42	25 4	28 52
2	10 20	19 54	29 5	8 ♉57	54	21	9 16	40	6	49
3	11 17	21 7	0♌48	21 50	50	22	9 51	38	8	46
4	12 14	22 20	2 28	4 ♊28	46	23	10 26	37	10	43
5	13 11	23 33	4 7	16 52	42	25	11 1	35	13	40
6	14 9	24 46	5 44	29 6	39	26	11 36	33	15	36
7	15 6	25 59	7 18	11♋11	18 35	0 28	12 11	4 32	25 17	28 33
8	16 3	27 12	8 51	23 9	32	30	12 47	30	19	30
☾	17 0	28 25	10 21	5 ♌ 2	28	32	13 22	28	21	27
10	17 58	29 38	11 49	16 52	25	34	13 58	27	23	24
11	18 55	0♋51	13 15	28 42	21	36	14 33	26	25	21
12	19 52	2 4	14 39	10♍33	18	39	15 9	24	27	17
13	20 49	3 17	16 0	22 31	14	42	15 44	23	30	14
14	21 46	4 30	17 20	4 ♎37	18 11	0 45	16 20	4 22	25 32	28 11
15	22 44	5 43	18 37	16 57	7	48	16 55	20	34	8
16	23 41	6 57	19 51	29 34	4	51	17 31	19	36	4
17	24 38	8 10	21 3	12♏32	1	55	18 7	17	38	1
18	25 35	9 23	22 13	25 55	17 58	58	18 43	16	40	27 58
19	26 33	10 36	23 20	9 ♐44	55	1 2	19 19	14	42	55
20	27 30	11 50	24 24	24 0	52	6	19 55	13	44	52
21	28 27	13 3	25 25	8 ♑41	17 50	1 10	20 31	4 12	25 46	27 49
22	29 24	14 16	26 24	23 41	47	14	21 7	11	48	45
23	0♌22	15 29	27 20	8 ♒52	44	18	21 44	10	49	42
24	1 19	16 43	28 12	24 4	42	22	22 20	9	51	39
25	2 16	17 56	29 1	9 ♓ 8	39	27	22 57	8	53	36
26	3 14	19 10	29 47	23 54	37	32	23 34	7	55	33
27	4 11	20 24	0♍30	8 ♈18	35	37	24 10	6	57	30
28	5 8	21 37	1 8	22 14	17 32	1 43	24 47	4 5	25 59	27 26
29	6 6	22 51	1 43	5 ♉44	30	48	25 24	5	26 0	23
30	7 3	24 4	2 14	18 49	28	54	26 1	4	2	20
31	8 0	25 18	2 40	1 ♊33	17 26	1 59	26 37	4 3	26 4	27 17

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1899

Full Moon July 22nd in ♑ 29° 24′

Declination of the Planets

D	S T	☉	♀	♂	☽	♃	♄	♅	♆	♇
		N	N	N	N	S	S	N	S	N
1	6 37	23 7	22 16	22 30	14 23	21 33	10 27	9 13	21 0	22 7
2	41	3	24	22 6	18 21	33	27	8 59	0	7
3	45	22 58	32	21 40	21 21	32	28	46	20 59	7
4	49	53	39	21 13	23 15	32	29	32	59	7
5	53	48	45	20 45	23 57	32	30	17	59	7
6	57	42	51	20 17	23 29	32	30	3	59	7
7	7 0	22 36	22 56	19 47	21 55	21 32	10 31	7 49	20 58	22 8
8	4	29	23 0	19 17	19 23	32	32	35	58	8
9	8	22	4	18 46	16 3	31	33	21	57	8
10	12	15	7	18 15	12 6	31	34	6	57	8
11	16	7	10	17 43	7 42	31	35	6 52	56	8
12	20	21 59	12	17 11	3 1	31	36	37	56	8
13	24	50	13	16 38	1 s49	31	37	23	56	8
14	7 28	21 41	23 13	16 6	6 38	21 31	10 38	6 8	20 56	22 8
15	32	32	13	15 33	11 16	31	40	5 54	55	8
16	36	22	12	15 0	15 33	31	41	39	55	8
17	40	12	10	14 28	19 15	30	43	24	55	8
18	44	2	8	13 55	22 3	30	45	9	55	8
19	48	20 51	5	13 23	23 39	30	46	4 54	54	8
20	52	40	1	12 52	23 48	30	48	39	54	8
21	7 56	20 29	22 57	12 20	22 19	21 30	10 49	4 24	20 54	22 8
22	8 0	17	52	11 50	19 15	30	51	9	54	8
23	4	5	46	11 19	14 50	30	53	3 54	54	9
24	7	19 53	40	10 50	9 29	30	55	39	54	9
25	11	40	33	10 22	3 37	30	56	24	53	9
26	15	27	25	9 54	2 N20	30	58	9	53	9
27	19	13	17	9 27	8 0	30	11 0	2 54	53	9
28	8 23	18 59	22 8	9 2	13 5	21 30	11 2	2 39	20 53	22 9
29	27	45	21 58	8 38	17 22	30	4	23	53	9
30	31	31	48	8 15	20 39	30	6	8	53	9
31	8 35	18 16	21 37	7 54	22 50	21 30	11 9	1 52	20 53	22 9

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1899

New Moon August 6th in ♌ 13° 45′

Longitude of the Planets

D	☉	♀	☿	☽	♄	♅	♂	♆	♇	☊
	° ♌ ′	° ♋ ′	° ♍ ′	° ♊ ′	° ♐ ′	° ♏ ′	° ♍ ′	° ♐ ′	° ♊ ′	° ♐ ′
1	8 58	26 32	3 2	13 59	17℞24	2 5	27 14	4 ℞ 3	26 6	27 14
2	9 55	27 45	3 20	26 12	22	11	27 52	2	8	10
3	10 53	28 59	3 33	8 ♋14	20	17	28 29	2	9	7
4	11 50	0♌12	3 40	20 10	19	23	29 6	2	11	4
5	12 48	1 26	3 43	2 ♌ 1	17	29	29 43	1	13	1
6	13 45	2 40	3 ℞41	13 51	15	36	0♎21	1	14	26 58
7	14 43	3 54	3 33	25 41	17 14	2 42	0 58	4 1	26 16	26 55
8	15 40	5 8	3 19	7 ♍33	12	49	1 36	0	18	51
9	16 38	6 22	3 1	19 29	11	56	2 13	0	19	48
10	17 35	7 36	2 37	1 ♎30	10	3 3	2 51	0	21	45
11	18 33	8 50	2 7	13 40	9	10	3 29	3 59	22	42
12	19 31	10 4	1 33	26 0	8	17	4 6	59	24	39
13	20 28	11 17	0 55	8 ♍36	8	25	4 44	♑59	25	36
14	21 26	12 31	0 12	21 29	17 7	3 32	5 22	4 0	26 27	26 32
15	22 24	13 45	29♌26	4 ♐45	9	40	6 0	0	28	29
16	23 21	14 59	28 37	18 25	6	48	6 38	0	30	26
17	24 19	16 14	27 46	2 ♑32	5	56	7 16	0	31	23
18	25 17	17 28	26 54	17 5	5	4 4	7 54	1	33	20
19	26 14	18 42	26 2	2 ♒ 1	5	12	8 32	1	34	17
20	27 12	19 56	25 11	17 12	4	20	9 11	2	35	13
21	28 10	21 10	24 22	2 ♓30	17 4	4 29	9 49	4 2	26 36	26 10
22	29 8	22 24	23 36	17 43	4	37	10 28	2	38	7
23	0 ♍ 6	23 38	22 54	2 ♈41	D 5	46	11 6	3	39	4
24	1 3	24 52	22 18	17 15	5	55	11 45	3	40	1
25	2 1	26 7	21 47	1 ♉21	5 5	4	12 23	4	41	25 58
26	2 59	27 21	21 23	14 57	6	13	13 2	4	42	54
27	3 57	28 35	21 6	28 4	6	22	13 41	5	43	51
28	4 55	29 49	20 56	10♊47	17 7	5 31	14 20	4 6	26 44	25 48
29	5 53	1 ♍ 4	20D55	23 9	7	40	14 59	7	45	45
30	6 51	2 18	21 2	5 ♋16	8	50	15 38	8	46	41
31	7 49	3 33	21 18	17 13	17 9	5 59	16 17	4 9	26 47	25 38

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1899

Full Moon August 21st in ♒ 28° 10′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		N	N	N	N	S	S	N	S	N
1	8 39	18 1	21 25	7 34	23 49	21 30	11 11	1 37	20 53	22 9
2	43	17 46	13	17	23 39	30	13	22	53	9
3	47	17 31	0	1	22 22	30	15	6	53	9
4	51	17 15	20 47	6 48	20 5	30	17	0 51	53	9
5	55	16 59	33	36	16 58	30	20	35	52	9
6	59	16 42	18	27	13 11	30	22	20	52	9
7	9 3	16 26	20 3	6 21	8 54	21 30	11 25	0 4	20 52	22 9
8	7	16 9	19 47	17	4 18	30	27	s12	52	9
9	11	15 51	31	16	0 s29	30	30	27	52	9
10	15	15 34	14	18	5 17	30	32	43	52	9
11	18	15 16	18 57	23	9 56	30	35	58	52	9
12	22	14 58	39	31	14 15	30	38	1 14	52	9
13	26	14 40	20	42	18 3	30	41	30	52	9
14	9 30	14 22	18 1	6 55	21 5	21 30	11 43	1 46	20 52	22 9
15	34	14 3	17 41	7 12	23 5	31	46	2 1	52	9
16	38	13 44	21	31	23 48	31	49	17	52	9
17	42	13 25	1	52	23 1	31	52	33	52	9
18	46	13 6	16 40	8 15	20 42	31	55	48	52	9
19	50	12 46	18	40	16 56	31	58	3 4	52	9
20	54	12 27	15 56	9 6	12 0	31	12 1	20	52	9
21	9 58	12 7	15 34	9 33	6 18	21 32	12 4	3 36	20 53	22 9
22	10 2	11 47	11	10 0	0 15	32	7	51	53	9
23	6	11 27	14 48	28	5 N42	32	10	4 7	53	9
24	10	11 6	24	54	11 10	32	13	23	53	9
25	14	10 45	0	11 20	15 53	32	16	39	53	9
26	18	10 25	13 36	44	19 35	32	20	54	53	9
27	22	10 4	11	12 7	22 8	33	23	5 10	53	9
28	10 25	9 43	12 46	12 27	23 29	21 33	12 26	5 26	20 53	22 9
29	29	9 21	20	46	23 37	33	29	41	54	9
30	33	9 0	11 54	13 1	23 37	33	32	57	54	9
31	10 37	8 38	11 28	13 13	20 36	21 34	12 36	6 13	20 54	22 9

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1899

New Moon September 5th in ♍ 12° 40′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♍′	° ♍′	° ♎′	° ♋′	° ♑′	° ♏′	° ♐′	° ♑′	° ♊′	° ♑′
1	8 47	4 47	21 42	29 4	17 10	6 9	16 56	4 10	26 48	25 35
2	9 46	6 2	22 14	10♎53	11	18	17 35	11	49	32
3	10 44	7 16	22 55	22 43	12	28	18 14	12	50	29
4	11 42	8 31	23 44	4 ♍36	14	38	18 53	13	50	26
5	12 40	9 45	24 40	16 33	15	48	19 33	14	51	23
6	13 38	11 0	25 43	28 37	17	58	20 12	16	52	19
7	14 37	12 14	26 53	10♏47	17 18	7 8	20 52	4 17	26 53	25 16
8	15 35	13 29	28 9	23 6	20	19	21 32	18	54	13
9	16 33	14 43	29 31	5 ♎34	21	29	22 11	19	55	10
10	17 32	15 58	0♍59	18 15	23	39	22 51	21	55	7
11	18 30	17 12	2 30	1 ♐10	25	50	23 31	22	56	4
12	19 29	18 27	4 6	14 23	28	8 0	24 11	24	57	0
13	20 27	19 41	5 45	27 56	30	11	24 50	25	57	24 57
14	21 25	20 56	7 28	11♑51	17 32	8 22	25 30	4 27	26 58	24 54
15	22 24	22 11	9 13	26 10	35	33	26 10	28	58	51
16	23 22	23 26	10 59	10♒50	37	44	26 50	30	59	47
17	24 21	24 40	12 47	25 47	39	55	27 31	32	59	44
18	25 20	25 55	14 37	10♓54	42	9 6	28 11	34	27 0	41
19	26 18	27 10	16 27	26 0	45	17	28 51	36	0	38
20	27 17	28 25	18 18	10♈56	47	28	29 31	38	0	35
21	28 16	29 39	20 9	25 31	17 50	9 40	0♎12	4 40	27 1	24 32
22	29 14	0♒54	22 0	9 ♉41	53	51	0 52	42	1	28
23	0♒13	2 9	23 51	23 22	56	10 3	1 33	44	1	25
24	1 12	3 24	25 42	6 ♊34	59	14	2 14	46	1	22
25	2 11	4 38	27 32	19 20	18 2	26	2 54	48	1	19
26	3 9	5 53	29 21	1 ♋44	6	38	3 35	50	2	16
27	4 8	7 8	1♒11	13 52	9	49	4 16	52	2	13
28	5 7	8 23	2 59	25 49	18 12	11 1	4 57	4 55	27 2	24 9
29	6 6	9 38	4 47	7 ♌39	16	13	5 38	57	2	6
30	7 5	10 53	6 34	19 29	18 20	11 25	6 19	5 0	27 2	24 3

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1899

Full Moon September 19th in ♐ 26° 18′

Declination of the Planets

D	S T	☉	☿	♂	☽	♄	♅	♃	♆	♇
		N	N	N	N	S	S	S	S	N
1	10 41	8 17	11 2	13 23	17 43	21 34	12 39	6 28	20 54	22 9
2	45	7 55	10 35	13 29	14 8	34	42	44	54	9
3	49	7 33	10 8	13 32	10 0	35	46	7 0	55	9
4	53	7 11	9 40	13 31	5 30	35	49	15	55	9
5	57	6 48	9 13	13 26	0 46	35	53	31	55	9
6	11 1	6 26	8 45	13 19	4 S 2	35	57	46	55	9
7	11 5	6 4	8 17	13 7	8 43	21 36	13 0	8 2	20 56	22 9
8	9	5 41	7 48	12 52	13 7	36	4	17	56	9
9	13	5 18	7 20	12 34	17 1	37	7	33	56	9
10	17	4 56	6 51	12 12	20 12	37	11	48	56	9
11	21	4 33	6 22	11 48	22 26	38	14	9 4	57	9
12	25	4 10	5 53	11 20	23 29	38	18	19	57	9
13	29	3 47	5 23	10 50	23 12	38	21	34	57	9
14	11 32	3 24	4 54	10 17	21 29	21 38	13 25	9 49	20 57	22 9
15	36	3 1	4 24	9 42	18 23	39	28	10 5	58	9
16	40	2 38	3 54	9 5	14 4	39	32	20	58	9
17	44	2 15	3 24	8 26	8 49	40	36	35	59	9
18	48	1 51	2 54	7 45	2 59	40	40	50	59	9
19	52	1 28	2 24	7 3	3 N 0	41	43	11 5	21 0	9
20	56	1 5	1 54	6 20	8 45	41	47	20	0	9
21	12 0	0 41	1 24	5 36	13 52	21 42	18 51	11 35	21 0	22 9
22	4	0 18	0 53	4 51	18 4	42	55	49	0	9
23	8	0 S 5	0 23	4 5	21 7	43	58	12 4	1	9
24	12	0 29	0 S 8	3 19	22 55	43	14 1	19	1	9
25	16	0 52	0 38	2 32	23 26	44	5	33	1	9
26	20	1 16	1 8	1 45	22 46	44	9	48	1	9
27	24	1 39	1 39	0 58	21 2	44	13	13 2	2	9
28	12 28	2 2	2 9	0 11	18 23	21 44	14 17	13 17	21 2	22 9
29	32	2 26	2 40	S 36	15 0	45	20	31	3	8
30	12 36	2 49	3 10	1 22	11 2	21 46	14 24	13 45	21 4	22 8

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SIMPLIFIED SCHEME

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1899

New Moon October 4th in ♎ 11° 2′

Longitude of the Planets

D	☉	☿	♀	♂	♃	♄	♅	♆	♇	☊
	° ♎′	° ♎′	° ♎′	° ♍′	° ♑′	° ♏′	° ♐′	° ♑′	° ♊′	° ♑′
1	8 4	12 8	8 20	1 20	18 24	11 37	7 0	5 2	27♋ 2	24 0
2	9 3	13 22	10 5	13 18	27	49	7 41	5	1	23 57
3	10 3	14 37	11 50	25 23	31	12 1	8 22	7	1	54
4	11 2	15 52	13 33	7 ♎37	35	13	9 4	9	1	50
5	12 1	17 7	15 16	20 1	39	25	9 45	12	1	47
6	13 0	18 22	16 58	2 ♏35	43	37	10 26	14	1	44
7	13 59	19 37	18 40	15 19	18 48	12 50	11 8	5 17	27 1	23 41
8	14 59	20 52	20 20	28 14	52	13 2	11 49	19	1	38
9	15 58	22 7	22 0	11 ♐21	56	14	12 31	22	0	35
10	16 57	23 22	23 39	24 41	19 1	27	13 13	24	0	31
11	17 57	24 37	25 17	8 ♑15	5	39	13 55	27	0	28
12	18 56	25 52	26 55	22 6	10	52	14 36	30	26 59	25
13	19 56	27 7	28 31	6 ♒12	15	14 4	15 18	33	59	22
14	20 55	28 22	0 ♏ 8	20 35	19 19	14 17	16 0	5 36	26 58	23 18
15	21 55	29 37	1 43	5 ♓10	24	30	16 42	39	58	15
16	22 54	0♏51	3 18	19 53	29	43	17 24	42	58	12
17	23 54	2 6	4 52	4 ♈37	34	55	18 6	45	57	9
18	24 53	3 21	6 26	19 14	39	15 8	18 48	48	57	6
19	25 53	4 36	7 59	3 ♉37	44	21	19 30	51	56	3
20	26 53	5 51	9 31	17 39	49	34	20 13	54	56	22 59
21	27 52	7 6	11 3	1 ♊17	19 54	15 46	20 55	5 57	26 55	22 56
22	28 52	8 21	12 34	14 30	59	59	21 38	6 0	54	53
23	29 52	9 36	14 5	27 18	20 4	16 12	22 20	3	54	50
24	0♏52	10 51	15 35	9 ♋46	10	25	23 3	7	53	47
25	1 51	12 6	17 4	21 56	15	38	23 45	10	52	44
26	2 51	13 21	18 33	3 ♌55	21	51	24 28	13	51	40
27	3 51	14 36	20 2	15 48	26 17	4	25 11	16	50	37
28	4 51	15 51	21 29	27 39	20 32	17 17	25 53	6 19	26 49	22 34
29	5 51	17 6	22 57	9 ♍33	37	30	26 36	22	48	31
30	6 51	18 21	24 23	21 34	43	43	27 19	25	47	28
31	7 51	19 36	25 49	3 ♎45	20 49	17 57	28 2	6 29	25 45	22 25

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1899

Full Moon October 18th in ♈ 24° 53′

Declination of the Planets

D	S T	☉	♀	♂	☽	♄	♅	♆	♇	♇
		S	S	S	N	S	S	S	S	N
1	12 40	8 12	3 41	2 9	6 40	21 46	14 28	13 59	21 4	22 8
2	43	3 36	4 11	2 56	2 0	46	32	14 13	4	8
3	47	3 59	4 41	3 42	2 s46	47	36	27	5	8
4	51	4 22	5 11	4 28	7 29	47	38	41	5	8
5	55	4 45	5 41	5 13	11 58	48	40	55	6	8
6	59	5 8	6 11	5 58	16 0	48	45	15 8	6	8
7	13 3	5 31	6 41	6 43	19 22	21 49	14 51	15 22	21 7	22 8
8	7	5 54	7 10	7 27	21 48	50	55	35	7	8
9	11	6 17	7 40	8 10	23 7	51	59	49	8	8
10	15	6 40	8 9	8 53	23 9	51	15 3	16 2	8	8
11	19	7 3	8 38	9 35	21 48	52	6	15	9	8
12	23	7 25	9 7	10 17	19 9	52	10	28	9	8
13	27	7 48	9 36	10 58	15 19	53	14	41	10	8
14	13 31	8 10	10 5	11 39	10 32	21 53	15 18	16 54	21 10	23 8
15	35	8 33	10 33	12 19	5 6	54	22	17 6	11	8
16	39	8 55	11 1	12 58	0 N39	54	26	19	11	8
17	43	9 17	11 29	13 36	6 23	55	29	31	12	8
18	47	9 39	11 56	14 14	11 42	55	33	44	12	8
19	50	10 0	12 23	14 50	16 17	56	37	56	13	8
20	54	10 22	12 50	15 27	19 50	56	41	18 8	13	8
21	13 58	10 44	13 17	16 2	22 10	21 57	15 45	18 20	21 14	22 8
22	14 2	11 5	13 43	16 36	23 10	57	48	31	14	8
23	6	11 26	14 9	17 10	22 54	58	52	43	15	7
24	10	11 47	14 35	17 43	21 29	58	56	54	15	7
25	14	12 8	15 0	18 15	19 5	59	16 0	19 5	16	7
26	18	12 28	15 25	18 46	15 54	59	3	17	16	7
27	22	12 49	15 50	19 16	12 7	22 0	7	28	17	7
28	14 26	13 9	16 14	19 45	7 52	22 0	16 11	19 38	21 17	22 7
29	30	13 29	16 37	20 13	3 20	1	15	49	18	7
30	34	13 49	17 1	20 40	1 s23	1	18	59	18	7
31	14 38	14 8	17 24	21 6	6 6	22 2	16 22	20 10	21 19	22 7

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1899

New Moon November 3rd in ♏ 10° 52′

Longitude of the Planets

D	☉	☿	♀	♂	☽	♃	♄	♅	♆	♇	☊
	° ♏′	° ♏′	° ♏′	° ♐′	° ♑′	° ♑′	° ♏′	° ♏′	° ♑′	° ♊′	° ♑′
1	8 51	20 51	27 14	16 9	20 55	18 10	28 45	6 33	26R44	22 21	
2	9 51	22 6	28 38	28 47	21 1	23	29 28	36	43		18
3	10 52	23 21	0 ♑ 2	11♏39	7	36	0 ♑ 11	39	42		15
4	11 52	24 36	1 25	24 44	13	49	0 54	43	41		12
5	12 52	25 51	2 47	8 ♑ 2	19	19 3	1 38	46	40		9
6	13 52	27 6	4 8	21 31	25	16	2 21	49	39		5
7	14 53	28 21	5 28	5 ♈10	21 31	19 29	3 5	6 53	26 38	22 2	
8	15 53	29 36	6 47	18 59	37	42	3 48	57	37		21 59
9	16 53	0 ♑ 51	8 5	2 ♒57	43	56	4 32	7 0	35		56
10	17 54	2 6	9 21	17 2	49	20 9	5 15	4	34		53
11	18 54	3 21	10 35	1 ♓14	56	22	5 59	7	33		50
12	19 54	4 36	11 47	15 30	22 2	35	6 43	11	32		47
13	20 55	5 51	12 58	29 47	9	49	7 26	14	30		43
14	21 55	7 6	14 6	14♈ 2	22 15	21 2	8 10	7 18	26 29	21 40	
15	22 56	8 21	15 12	28 11	22	15	8 54	21	28		37
16	23 56	9 36	16 14	12 ♉ 8	28	28	9 38	25	26		34
17	24 57	10 51	17 14	25 50	34	42	10 22	29	25		31
18	25 57	12 6	18 9	9 ♊14	41	55	11 6	33	24		27
19	26 58	13 21	19 1	22 18	47	22 8	11 50	36	22		24
20	27 58	14 36	19 47	5 ♋ 3	54	21	12 34	40	21		21
21	28 59	15 51	20 28	17 30	23 0	22 35	13 19	7 43	26 19	21 18	
22	29 59	17 6	21 3	29 43	7	48	14 3	47	18		15
23	1 ♑ 0	18 21	21 31	11♌43	14	23 1	14 47	50	16		12
24	2 1	19 36	21 51	23 37	21	14	15 31	54	15		8
25	3 2	20 51	22 3	5 ♍29	27	28	16 16	58	13		5
26	4 2	22 6	22 6	17 24	34	41	17 0	8 1	12		2
27	5 3	23 21	21R59	29 26	41	54	17 45	5	10	20 59	
28	6 4	24 36	21 41	11♎39	23 48	24 7	18 29	8 9	26 9	20 55	
29	7 5	25 51	21 12	24 8	55	20	19 14	13	7		52
30	8 6	27 6	20 33	6 ♍54	24 2	24 34	19 59	8 17	26 6	20 49	

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1899

Full Moon November 17th in ♉ 24° 57'

Declination of the Planets

D	S T	☉	☿	♀	♁	♃	♄	♅	♆	♇	☽
		S	S	S	S	S	S	S	S	N	
1	14 42	14 28	17 46	21	31	10 39	22 3	16 26	20 20	21 20	22 7
2	46	14 47	18 8		55	14 51	3	30	30	20	7
3	50	15 6	18 29	22	18	18 26	4	34	40	21	7
4	54	15 24	18 50		40	21 10	4	37	49	22	7
5	58	15 43	19 11	23	0	22 47	5	41	59	23	7
6	15 1	16 1	19 30		20	23 6	5	45	21 8	23	7
7	15 5	16 19	19 50	23	38	22 3	22 6	16 48	21 17	21 24	22 7
8	9	16 36	20 9		55	19 39	6	51	26	24	7
9	13	16 53	20 27	24	10	16 6	7	55	34	25	7
10	17	17 10	20 44		24	11 36	7	59	43	26	7
11	21	17 27	21 2		37	6 27	8	17 3	51	27	7
12	25	17 44	21 18		49	0 56	8	7	59	27	7
13	29	18 0	21 34		59	4 N38	9	10	22 7	28	6
14	15 33	18 15	21 49	25	8	9 57	22 9	17 14	22 15	21 28	22 6
15	37	18 31	22 4		15	14 41	10	17	22	29	6
16	41	18 46	22 18		20	18 34	10	20	29	29	6
17	45	19 1	22 31		24	21 30	11	24	36	30	6
18	49	19 15	22 44		27	22 51	11	27	43	30	6
19	53	19 29	22 56		28	23 3	12	31	50	31	6
20	57	19 43	23 7		27	22 1	12	35	56	31	6
21	16 1	19 57	23 18	25	24	19 55	22 13	17 38	23 2	21 32	22 6
22	5	20 10	23 28		20	16 57	13	41	8	33	6
23	8	20 22	23 37		14	13 19	14	44	14	34	6
24	12	20 35	23 46		5	9 13	14	48	19	34	6
25	16	20 47	23 54	24	55	4 46	14	51	24	35	6
26	20	20 58	24 1		43	0 8	14	55	29	35	6
27	24	21 9	24 7		29	4 S33	15	58	34	36	6
28	16 28	21 20	24 13	24	13	9 7	22 15	18 1	23 38	21 36	22 6
29	32	21 30	24 18	23	55	13 26	16	4	43	37	6
30	16 36	21 40	24 22	23	34	17 15	22 17	18 7	23 47	21 38	22 6

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1899

Eclipse of Sun December 3rd in ♐ 11° 8′

Longitude of the Planets

D	☉	☿	♂	♃	♄	♅	♆	♇	☊
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	9 6	28 21	19R42	20 0	24 9	24 47	20 44	8 20	26R 4	20 46
2	10 7	29 36	18 41	3 ♐ 24	16	25 0	21 29	24	2	43
3	11 8	0♑51	17 32	17 6	23	13	22 13	28	1	40
4	12 9	2 6	16 16	1 ♑ 3	30	26	22 58	31	25 59	36
5	13 10	3 21	14 55	15 11	37	39	23 43	35	58	33
6	14 11	4 36	13 32	29 26	44	52	24 28	39	56	30
7	15 12	5 51	12 10	13♒45	24 51	26 5	25 14	8 42	25 54	20 27
8	16 13	7 6	10 51	28 3	58	18	25 59	46	53	24
9	17 14	8 21	9 39	12♓17	25 5	30	26 44	50	51	21
10	18 15	9 36	8 35	26 25	12	43	27 29	53	49	17
11	19 16	10 51	7 40	10♈26	19	56	28 15	57	47	14
12	20 17	12 6	6 56	24 16	26	27 8	29 0	9 1	46	11
13	21 18	13 20	6 23	7 ♉ 56	33	21	29 45	4	44	8
14	22 19	14 35	6 2	21 25	25 40	27 34	0♑30	9 8	25 42	20 5
15	23 20	15 50	5 51	4 ♊40	47	47	1 16	12	40	2
16	24 21	17 5	5 50	17 42	54	28 0	2 1	16	39	19 58
17	25 22	18 20	6 D	0 0 ♋30	26 1	12	2 47	19	37	55
18	26 23	19 35	6 18	13 4	8	25	3 32	23	36	52
19	27 24	20 49	6 44	25 25	15	37	4 18	26	34	49
20	28 25	22 4	7 17	7 ♌34	22	50	5 4	30	32	46
21	29 27	23 19	7 57	19 34	26 30	29 2	5 50	9 33	25 30	19 43
22	0♑28	24 34	8 42	1 ♍28	37	14	6 35	37	29	39
23	1 29	25 48	9 33	13 20	44	26	7 21	40	27	36
24	2 30	27 3	10 28	25 13	51	39	8 7	44	25	33
25	3 31	28 18	11 27	7 ♎13	58	51	8 53	47	24	30
26	4 32	29 32	12 29	19 24	27 5	0 ♐ 3	9 39	51	22	27
27	5 33	0♒47	13 35	1 ♏51	12	15	10 25	54	20	24
28	6 35	2 2	14 44	14 37	27 19	0 27	11 11	9 57	25 19	19 20
29	7 36	3 17	15 54	27 46	26	39	11 57	10 1	17	17
30	8 37	4 31	17 7	11 ♐20	33	51	12 43	4	16	14
31	9 38	5 46	18 22	25 18	27 40	1 3	13 29	10 7	25 14	19 11

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1899

Eclipse of Moon December 17th in ♊ 25° 22′

Declination of the Planets

D	S T	☉	♀	☿	☽	♄	♅	♂	♃	♆
		S	S	S	S	S	S	S	S	N
1	16 40	21 50	24 26	23 11	20 19	22 17	18 11	23 50	21 39	22 6
2	44	59	28	22 47	22 21	17	14	54	40	6
3	48	22 7	30	22 20	23 7	18	17	57	40	5
4	52	16	31	21 52	22 27	18	20	24 0	41	5
5	56	24	32	21 24	20 22	18	23	3	41	5
6	17 0	31	32	20 56	17 0	18	26	5	42	5
7	17 4	22 38	24 30	20 28	12 38	22 19	18 29	24 8	21 42	22 5
8	8	44	29	20 2	7 34	19	32	10	43	5
9	12	50	26	19 38	2 7	20	35	11	43	5
10	15	56	23	19 17	3 N24	20	38	13	44	5
11	19	23 1	19	19 0	8 42	20	41	14	44	5
12	23	6	14	18 46	13 30	20	44	15	45	5
13	27	10	8	18 36	17 32	21	47	15	45	5
14	17 31	23 14	24 2	18 30	20 36	22 21	18 50	24 16	21 46	22 5
15	35	17	23 55	18 27	22 29	22	53	16	46	5
16	39	20	47	18 28	23 7	22	56	16	47	5
17	43	22	39	18 32	22 31	22	59	15	47	5
18	47	24	30	18 38	20 46	22	19 1	15	48	5
19	51	26	20	18 47	18 4	23	4	14	49	5
20	55	27	9	18 58	14 38	23	5	13	50	5
21	17 59	23 27	22 58	19 10	10 38	22 23	19 6	24 11	21 50	22 5
22	18 3	27	46	19 24	6 17	23	10	9	51	5
23	7	27	33	19 38	1 43	24	15	7	51	4
24	11	26	20	19 54	2 S55	24	17	6	52	4
25	15	24	6	20 9	7 30	24	20	2	52	4
26	19	22	21 51	20 26	11 51	24	22	23 59	53	4
27	23	20	36	20 42	15 49	25	25	56	53	4
28	18 26	23 17	21 20	20 58	19 10	22 25	19 27	23 53	21 54	22 4
29	30	14	3	21 14	21 38	25	30	49	54	4
30	34	10	20 46	21 30	22 58	25	33	45	55	4
31	18 38	23 6	20 28	21 45	22 54	22 25	19 35	23 41	21 55	22 4

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TABLE OF PROPORTIONAL LOGARITHMS

Min.	Hours or Degrees 12	13	14	15	16	17	18	19	20	21	22	23	0
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185	0
1	04	57	36	36	56	93	45	11	88	77	75	82	1
2	2998	52	30	32	52	89	41	07	85	73	71	79	2
3	92	46	25	27	47	85	37	03	81	70	68	75	3
4	86	41	20	22	43	81	34	0999	77	66	64	72	4
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169	5
6	74	29	10	12	34	72	25	92	70	59	58	66	6
7	68	24	05	08	29	68	21	88	66	56	55	63	7
8	62	18	00	03	25	64	17	84	63	52	52	60	8
9	56	13	2295	1998	20	60	13	80	59	49	48	57	9
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153	10
11	45	02	84	89	11	51	05	73	52	42	42	50	11
12	38	2596	79	84	07	47	01	69	49	39	39	47	12
13	33	91	74	79	02	43	1197	65	45	35	35	44	13
14	27	85	69	74	1698	38	93	62	42	32	32	41	14
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138	15
16	15	75	59	65	89	30	85	54	34	25	26	35	16
17	09	69	54	60	85	26	82	50	31	22	22	32	17
18	03	64	49	55	80	22	78	47	27	18	19	29	18
19	2897	58	44	50	76	17	74	43	24	15	16	25	19
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122	20
21	85	47	34	41	67	09	66	35	17	08	09	19	21
22	80	42	29	36	63	05	62	32	13	05	06	16	22
23	74	36	23	32	58	01	58	28	09	01	03	13	23
24	68	31	18	27	54	1397	54	24	06	0498	00	10	24
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107	25
26	56	20	08	17	45	88	46	17	0699	91	92	04	26
27	50	15	03	13	40	84	42	13	95	88	90	01	27
28	45	09	2198	08	36	80	38	09	92	85	87	0098	28
29	39	04	93	03	32	76	34	05	88	81	83	94	29
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091	30
31	27	93	83	94	23	68	26	0898	81	74	77	88	31
32	21	88	78	90	19	63	23	94	78	71	74	85	32
33	16	83	73	85	14	59	10	91	74	68	71	82	33
34	10	77	68	80	10	55	15	87	70	64	67	79	34
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076	35
36	2798	67	59	71	01	47	07	80	64	58	61	73	36
37	93	61	54	66	1597	43	03	76	60	54	58	70	37
38	87	56	49	62	92	39	1099	72	56	51	55	67	38
39	81	51	44	57	88	35	95	68	53	48	51	64	39
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061	40
41	70	40	34	48	79	27	88	61	46	41	45	58	41
42	64	35	29	43	75	22	84	57	42	37	42	55	42
43	58	30	24	38	71	18	80	54	39	34	39	52	43
44	53	24	19	34	66	14	76	50	35	31	35	48	44
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045	45
46	41	14	09	25	58	06	68	43	29	24	29	42	46
47	36	09	04	20	53	02	64	39	25	21	26	39	47
48	30	03	2099	16	49	1298	61	35	21	18	23	36	48
49	24	2398	2095	11	45	94	57	32	18	14	20	33	49
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030	50
51	13	88	85	02	36	86	49	24	11	08	13	27	51
52	07	82	80	1797	32	82	45	21	08	04	10	24	52
53	02	77	75	93	28	78	41	17	04	01	07	21	53
54	2696	72	70	88	23	74	37	14	01	0398	04	18	54
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015	55
56	85	62	61	79	15	66	30	06	94	91	0197	12	56
57	79	56	56	74	10	61	26	03	90	88	94	09	57
58	74	51	51	70	06	57	22	0799	87	84	91	06	58
59	68	46	46	65	02	53	18	95	83	81	88	03	59

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	35	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	26	5692	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3295	16

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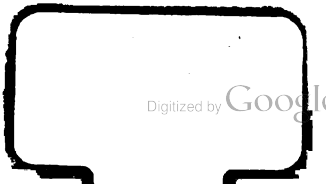
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